

X11 Encontro da
SBPMat

*Campos do
Jordão*

2 0 1 3

September 29 to
October 03

X11 Brazilian MRS Meeting



SBPMat
Brazil-MRS

Brazilian Materials
Research Society

Program Book

XII Encontro da SBPMat

*Campos do
Jordão*

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September 29 to
October 03

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Título

WELCOME MESSAGE

The XII Brazilian Materials Research Society Meeting (XII B-MRS) will be held from 29 September to 3 October in Campos do Jordão, São Paulo, Brazil. B-MRS Meeting has grown considerably in recent years, and now is considered as an important international meeting in Materials Science and Engineering. The scientific and technological sessions include many well-established areas of materials research as well as emergent ones: Materials for Electronics and Photonics, Materials for Energy, Soft Materials and Biomaterials, Nanomaterials, Supramolecular structures, Organic Materials, Characterization Techniques, Theory and Simulation, etc. The main objective of the B-MRS Society is to congregate materials scientists in order to stimulate and synergize the development of knowledge in several branches of materials science and engineering.

Roberto M. Faria (President of Brazil MRS)

WELCOME TO THE XII BRAZILIAN MRS SOCIETY MEETING

Dear Participants,

We would like to welcome you to the XII Brazilian Materials Research Society Meeting, from 29 September through 3 October, 2013, in Campos do Jordão, São Paulo, Brazil.

The XII Brazilian MRS Meeting aims at promoting, demonstrating and enabling development of new technologies, techniques and theories. It also intends to foster new work strategies and collaborations, while promoting the updating and training of researchers and students.

The Committee Organizers put together a program with 14 dedicated Symposia following the traditional MRS format, which covers a wide range of scientific and technical topics in materials science and engineering. This year the Meeting congregates about 1500 participants and has 1770 accepted abstracts.

The Opening Ceremony will be followed by the Memorial Lecture “Joaquim Costa Ribeiro”, Progresses in Materials Research in Brazil by Professor Elson Longo. The conference program also includes 7 Plenary Lectures by internationally renowned researchers, and a Panel Discussion on “*Science, Engineering and Commercialization of Industrial, Electronic and Biomedical Devices*”. Before closing the Awards Ceremony will honor students with the “Bernhard Gross Award” for the best contribution of each Symposium and the best contribution of the XII Meeting.

Another important feature of the SBPMat Meeting is the Exhibition which offers information on a wide variety of products, instruments and services for the materials community.

On behalf of the Organizing Committee, we thank the agencies FAPESP, CAPES and CNPq for the financial support. We also thank the Brazilian Materials Research Society staff and board, the Symposium Coordinators, members of the Program, Local and National Committees, for their commitment and great effort to make the XII Meeting possible.

We hope you enjoy the XII Meeting and look forward to stimulating exchange of scientific information and new ideas and collaborations.

José Alberto Giacometti and Julio Ricardo Sambrano
Meeting Chairs

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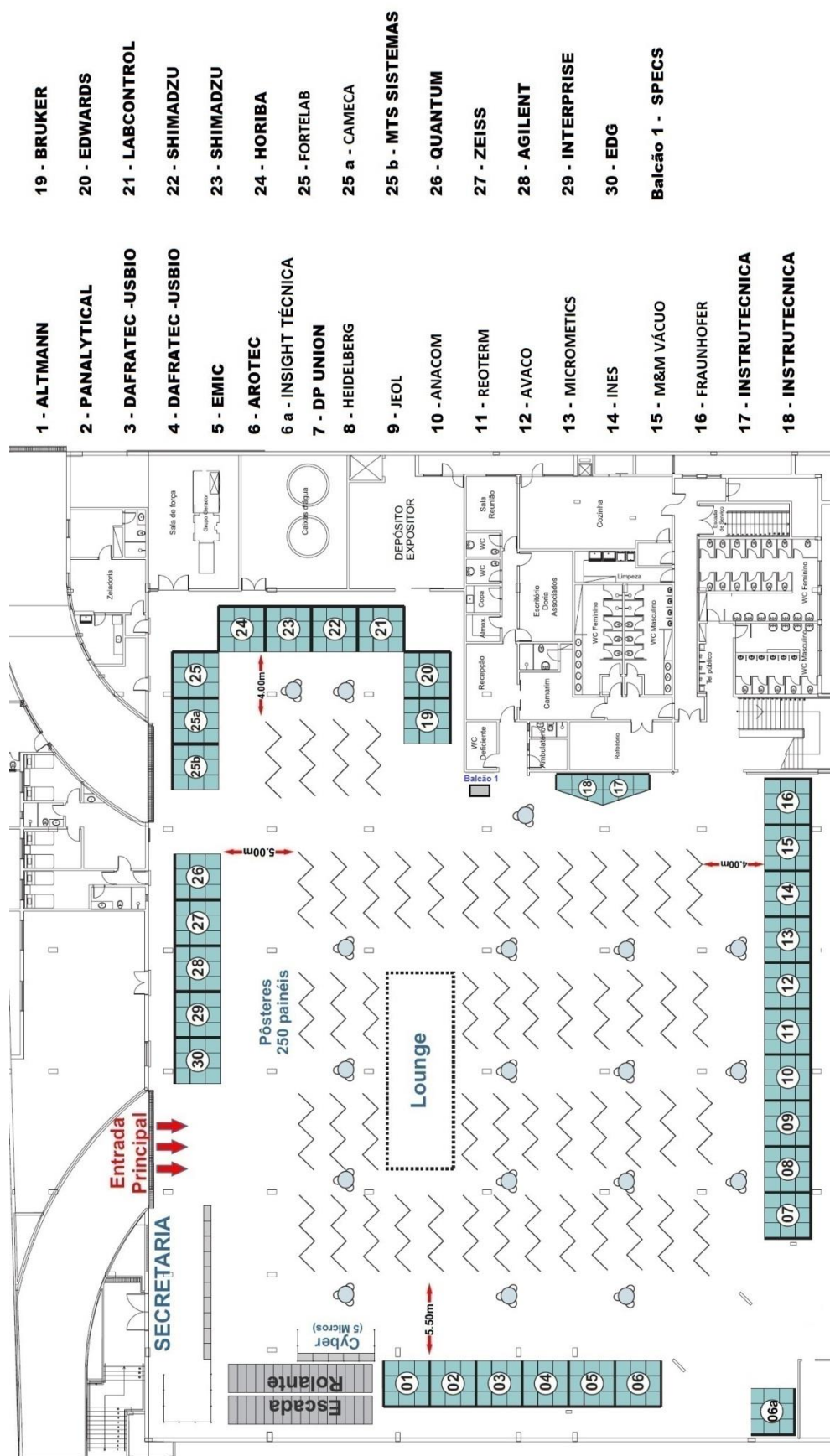
VENUE

Campos do Jordão is a municipality in the state of São Paulo in southeastern Brazil. The population is circa of 50 thousands inhabitants and the area is 290 square kilometres. The city is situated 1,640 meters above sea level, the highest city in Brazil, 170 km far from the São Paulo city and 350 km from Rio de Janeiro.

The Mantiqueira mountains provide unique panoramic views, and the municipality's region still has undeveloped old growth Atlantic Forest habitat. The endemic Brazilian Paraná pine (*Araucaria angustifolia*) is found in this region. The portion of the beautiful mountain chain is home to several climate resorts that make up an interesting tourist destination for those looking to enjoy the tranquility and the pleasure of being in contact with a huge area of lush nature.

Its attractions throughout the year include German and Swiss cuisine restaurants, bars, and a cable car. There are many pousadas (inns) and chalets. Also, in order to cater to the large number of visitors, several bars, lounges, discos and clubs open during the winter months. A former state governor had a winter residence here, the Boa Vista Palace, which is now a museum in the city.

Despite its location within the tropics, due to the high elevation, temperatures here are cooler than one might expect. The resort town features “spring-like” temperatures throughout the year, with mild summers and cool winters. However, by Brazilian standards, the town is downright cold. In summer, maximum temperatures average 24°C and minimum temperatures average 13°C. In winter, maximum temperatures average 18°C and minimum temperatures average 4°C.



SITE MAP

SECOND FLOOR

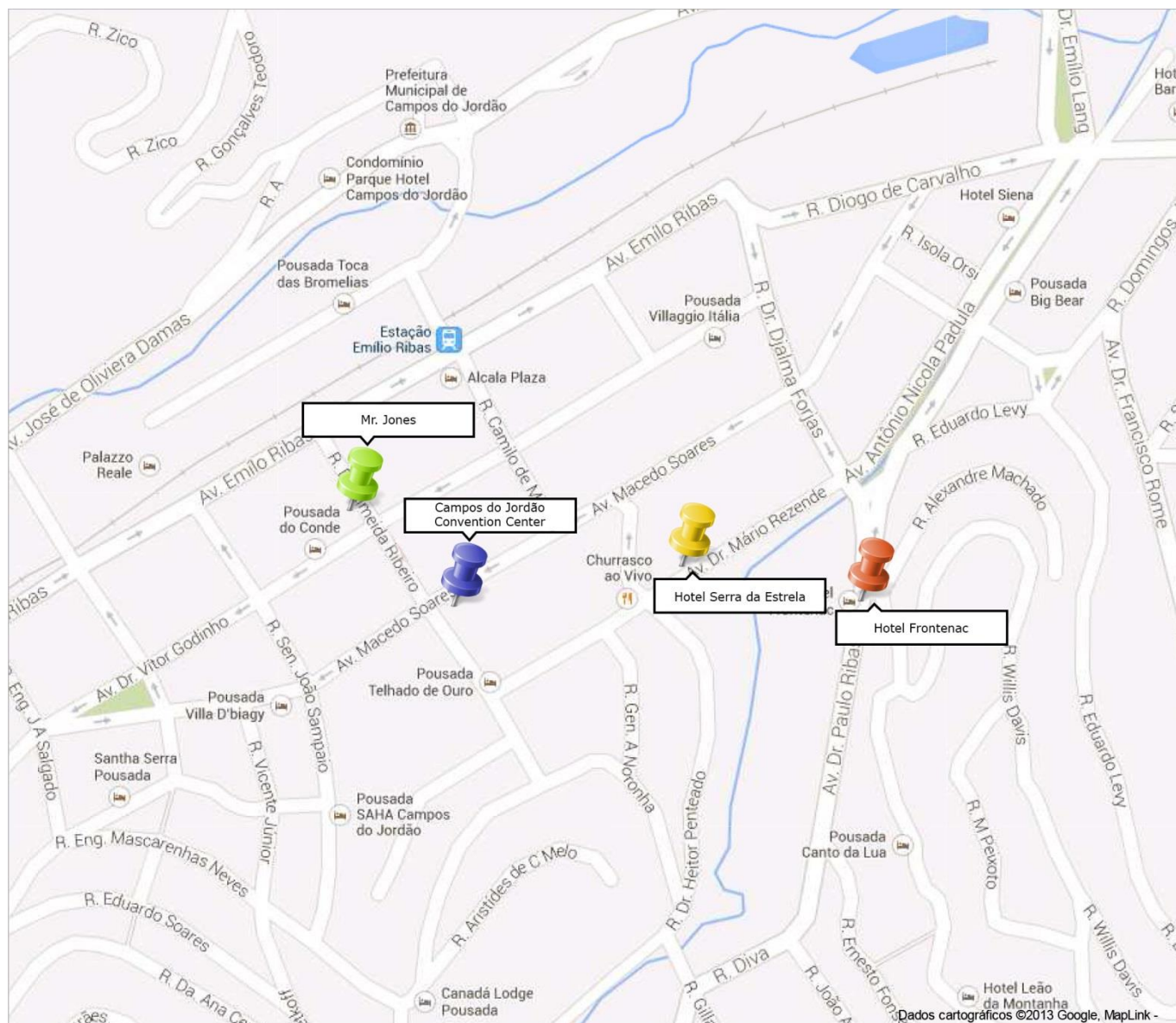


Campos do Jordão Convention Center - Av Macedo Soares, 499 – Capivari

Hotel Serra da Estrela - Av. Dr. Mário Rezende, 160 - Capivari

Hotel Frontenac - Av. Dr. Paulo Ribas, 295 - Capivari

Mr. Jones - Rua Dr Ribeiro de Almeida, Capivari (Conference Party)



GENERAL SCHEDULE

Schedule	Sunday 29 th Sep	Monday 30 th Sep	Tuesday 01 st Oct	Wednesday 02 nd Oct	Thursday 03 rd Oct
8:00 – 18:00		Registration desk open	Registration desk open	Registration desk open	Registration desk open
8:30 – 9:15		Plenary 1 Prof. Carlos Paz Araújo	Plenary 3 Prof. Alan Riga	Plenary 5 Prof. Douglas Galvão	Plenary 7 Prof. Kaysser- Pyzalla
9:15 – 9:30		Displacement	Displacement	Displacement	Displacement
9:30 – 9:50		Oral Session 1 Symposia: A (r. 14), C (r. 2), D (r. 3), F (r. 8), H (r.7), JKM (Joint session r. 15), L (r. 5), O (r. 6)	Oral Session 5 Symposia: A (r. 14), C (r. 2), D (r. 3), E (r. 6), F (r. 8), H (r. 7), JKM (Joint session r. 15), L (r. 5)	Oral Session 9 Symposia: A (r. 14), B (r. 3), C (r. 2), E (r. 6), G (r. 8), I (r. 7), JKM (Joint session r. 15), L (r. 5)	Oral Session 13 Symposia: B (r. 3), E (r. 6), G (r. 8), I (r. 7), L (r. 5), N (r. 14)
9:50 – 10:10					
10:10 – 10:30					
10:30 – 10:50:					
10:50 – 11:10		Oral Session 2 Symposia: A (r. 14), C (r. 2), D (r. 3), F (r. 8), H (r. 7), JKM (Joint session r. 15), L (r. 5), O (r. 6)	Oral Session 6 Symposia: A (r. 14), C (r. 2), D (r. 3), E (r. 6), F (r. 8), H (r. 7), JKM (Joint session r. 15), L (r. 5) University Chapters (MRS) Meeting	Oral Session 10 Symposia: A (r. 14), B (r. 3), C (r. 2), E (r. 6), G (r. 8), I (r. 7), JKM (Joint session r. 15), L (r. 5) Institute of Physics (IOP) Meeting	“Bernhard Gross Award” Closing Ceremony
11:10 – 11:30					
11:30 – 11:50					
11:50 – 12:10					
12:10 – 12:30:					
12:30 – 14:00		Lunch	Lunch	Lunch	
14:00 – 14:45	Congress registration/ information desk open	Plenary 2 Prof. Mercouri G. Kanatidis	Plenary 4 Prof. Andrew P. Monkman	Plenary 6 Prof. Juan Andrés	
14:45 – 15:00		Displacement	Displacement	Displacement	
15:00 – 15:20		Oral Session 3 Symposia: A (r. 14), C (r. 2), D (r. 3), F (r. 8), H (r. 7), JKM (Joint session r. 15), L (r. 5)	Oral Session 7 Symposia: A (r. 14), B (r. 3), C (r. 2), E (r. 6), G (r. 8), H (r. 7), JKM (Joint session r. 15), L (r. 5)	Oral Session 11 Symposia: B (r. 3), C (r. 2), E (r. 6), G (r. 8), I (r. 7), L (r. 5), N (r. 14)	
15:20 – 15:40					
15:40 – 16:00					
16:00 – 16:20					
16:20 – 16:40		Coffee Break	Coffee Break	Coffee Break	
16:40 – 18:00		Poster Session 1 Symposia: C, JKM, L, O, P Oral Session 4 Symposia: A (r. 14), D (r. 3), F (r. 8), H (r. 7)	Poster Session 2 Symposia: C, D, F, I Oral Session 8 Symposia: A (r. 14), B (r. 3), H (r. 7)	Poster Session 3 Symposia: A, B, C, E, G, H, N, P Oral Session 12 Symposia: I (r. 7),	
18:20 – 18:40		Panel discussion: Science, Engineering and Commercialization of Industrial, Electronic and Biomedical Devices			
18:40 – 19:00					
19:00 – 19:30	Opening Ceremony				
19:30 – 20:30	Memorial Lecture “Joaquim Costa Ribeiro” Prof. Elson Longo	Free	Free	Free	
20:30 – 23:00	Cocktail Reception			Conference Party	

GENERAL SCHEDULE

Sunday, 29th September	
14:00 às 18:40	Congress registration information desk open
19:00 às 19:30	Opening Ceremony
19:30 às 20:30	MEMORIAL LECTURE “JOAQUIM COSTA RIBEIRO” Elson Longo, Universidade Estadual Paulista “Júlio De Mesquita Filho” (UNESP), Brazil Title: Development of research materials in Brazil
20:30 às 23:00	Cocktail Reception

Campos do Jordão Convention Center

Monday, 30th September

08:30 às 09:15	Plenary Lecture 1 - Room 1 Carlos A Paz de Araujo, University of Colorado Colorado Springs (UCCS), USA Title: Advanced Nonvolatile Memories									
09:15 às 09:30	Displacement									
Symposia	A	C	D	F	H	JKM	L	O		
Room	14	2	3	8	7	15	5	6		
09:30 às 10:30	Oral Session 1	Oral Session 1	Oral Session 1	Oral Session 1	Oral Session 1	Oral Session 1	Oral Session 1	Oral Session 1		
10:30 às 10:50	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break		
10:50 às 12:30	Oral Session 2	Oral Session 2	Oral Session 2	Oral Session 2	Oral Session 2	Oral Session 2	Oral Session 2	Oral Session 2		
12:30 às 14:00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch		
14:00 às 14:45	Plenary Lecture 2 - Room 1 Mercouri Gregori Kanatzidis, Northwestern University (NORTHWESTERN), USA Title: Electrical power from heat: All-scale hierarchical thermoelectrics with and without earth-abundant materials									
14:45 às 15:00	Displacement									
Symposia	A	C	D	F	H	JKM	L	O		
Room	14	2	3	8	7	15	5	6		
15:00 às 16:20	Oral Session 3	Oral Session 3	Oral Session 3	Oral Session 3	Oral Session 3	Oral Session 3	Oral Session 3	Oral Session 3		
16:20 às 16:40	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break		
16:40 às 18:00	Oral Session 4		Oral Session 4	Oral Session 4	Oral Session 4					
16:40 às 18:00	Fist Floor - Poster Session 1 Symposia: C, JKM, L, O, P									
18:20 às 18:40	Panel discussion Science, Engineering and Commercialization of Industrial, Electronic and Biomedical Devices									
19:30 às 20:30	FREE									
20:30 às 23:00	FREE									

Tuesday, 01st October

Plenary Lecture 3 - Room 1

Alan Riga, Case Western Reserve University (CASE), USA

Title: Dielectric Thermal Analysis and Differential Scanning Calorimetry studies led to a unified Polaron Theory of Ionic Conduction of organic and inorganic crystalline materials

Wednesday, 02nd October

08:30 às 09:15	Plenary Lecture 5 - Room 1 Douglas Soares Galvão, Universidade Estadual de Campinas (UNICAMP), Brazil Title: Challenges and Perspectives in Modelling Nanomaterials											
09:15 às 09:30	Displacement											
Symposia	A	B	C	E	G	I	JKM	L				
Room	14	3	2	6	8	7	15	5				
09:30 às 10:30	Oral Session 9	Oral Session 9	Oral Session 9	Oral Session 9	Oral Session 9	Oral Session 9	Oral Session 9	Oral Session 9				
10:30 às 10:50	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break				
10:50 às 12:30	Oral Session 10	Oral Session 10	Oral Session 10	Oral Session 10	Oral Session 10	Oral Session 10	Oral Session 10	Oral Session 10				
10:50 às 12:30	MEETING WITH THE INSTITUTE OF PHYSICS (IOP) - HOTEL SERRA DA ESTRELA											
12:30 às 14:00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch				
14:00 às 14:45	Plenary Lecture 6 - Room 1 Juan Andrés, Universitat Jaume I (UJI), Spain Title: Connecting theory with experiment: A survey to understand the behaviour of multifunctional metal oxides											
14:45 às 15:00	Displacement											
Symposia	B	C	E	G	I	L	N					
Room	3	2	6	8	7	5	14					
15:00 às 16:20	Oral Session 11	Oral Session 11	Oral Session 11	Oral Session 11	Oral Session 11	Oral Session 11	Oral Session 11					
16:20 às 16:40	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break					
16:40 às 18:00					Oral Session 12							
16:40 às 18:00	First Floor - Poster Session 3 Symposia: A, B, C, E, G, H, N, P											
18:20 às 18:40	FREE											
19:30 às 20:30	FREE											
20:30 às 23:00	Conference Party - Mr. Jones											

GENERAL SCHEDULE

Thursday, 03rd October									
08:30 às 09:15	Plenary Lecture 7 - Room 1 Anke Rita Kaysser-Pyzalla, Helmholtz-Zentrum Berlin für Materialien und Energie, Germany Title: Research for Renewable Energies – Understanding and Controlling Materials Properties								
09:15 às 09:30	Displacement								
Symposia	B	E	G	I	L	N			
Room	3	6	8	7	5	14			
09:30 às 10:30	Oral Session 13	Oral Session 13	Oral Session 13	Oral Session 13	Oral Session 13	Oral Session 13			
10:30 às 10:50	Displacement								
10:50 às 12:30	Room 1 "Bernhard Gross Award" Closing Ceremony								

MEMORIAL LECTURE “JOAQUIM COSTA RIBEIRO”

Sunday 29th

19:30 Elson Longo

Universidade Estadual Paulista "Júlio De Mesquita Filho" (UNESP), Brazil

Title: Development of research materials in Brazil

Since the founding of materials science at UFSCar, São Carlos, SP the country is evolving in this area of knowledge. It should be emphasized that the catalyzed materials science researchers from engineering, chemistry and physics, the development of ceramic materials, polymers and composites. On the other hand, there was an increase in research in materials that contributed enormously to the development of this area. With this new research structure, there was the need for the creation of the Brazilian Society for Materials, which has evolved positively over the last 10 years.

PLENARY LECTURES

Monday 30th

08:30 Carlos A Paz de Araujo

University of Colorado Colorado Springs (UCCS), USA

Title: Advanced Nonvolatile Memories

Nonvolatile memories are still the unfinished program of the semiconductor device revolution since the invention of the transistor in 1947. It is also the area where most research has occurred since the late sixties when Khang and Sze introduced the tunneling oxide memory concepts that later led to EPROMs, EEPROMs, and finally FLASH. Currently, much is happening in this field as integrated circuits, specially System-onChip (SoC) are becoming dominant and are approaching over 90% of their area as de facto memory devices. Also, as the limits of both DRAMs and FLASH become clear barriers for new technology development, the search for nonvolatile memories has resumed with much vigor. In the embedded microcontroller and Near Field Communication (NFC)/energy harvest areas, the explosive growth of the now mature FeRAMs (Fe = Ferroelectric Materials such as PZT and SBT), is in full swing as the only low power and high endurance options. In the area of large scale “Stand Alone” memories, there is activity and even initial products in two areas – STTRAMs (STT = Spin Torque Transfer) and ReRAMs (Re = Resistive). Within each category, there exist rich physics and materials science which deserve much attention as these technologies drive many aspects of new knowledge or revision of incomplete understanding of the underlying physico-chemical operation of switching states and storage at the nano-scale. This paper will review the state-of-the-art of nonvolatile memories, their physics and technology, concentrating in some depth in resistance switching. It will also point out opportunities for research and development including activities that can lead to commercialization of these devices.

14:00 Mercouri Gregori Kanatzidis

Northwestern University (NORTHWESTERN), USA

Title: Electrical power from heat: All-scale hierarchical thermoelectrics with and without earth-abundant materials

The nanostructuring approach to highly efficient thermoelectrics has produced a paradigm shift and ushered in a new era of investigation for bulk thermoelectrics. The new approach shows considerable promise to enhance the “contra-indicated” parameters of high electrical conductivity and low thermal conductivity. Currently lead chalcogenides incorporating second phases hold the record in figure of merit for high temperature power generation applications (ZT of ~2.2 at 915 K). The nanostructuring approach to highly efficient thermoelectrics has produced a paradigm shift and ushered in a new era of investigation for bulk thermoelectrics. Nanostructures in bulk thermoelectrics enable effective phonon scattering of a significant portion of the phonon spectrum but phonons with long mean free paths remain largely unaffected. It is now possible to incorporate scattering of these long-wavelength heat-carrying phonons by controlling and tailoring the mesoscale architecture of nanostructured thermoelectric materials. Thus, by combining all relevant length-scales in a hierarchical fashion; from atomic-scale disorder and nanoscale endotaxial precipitates to mesoscale phonon scattering via grain boundaries; we can achieve a large enhancement in the thermoelectric performance of bulk materials. We call this a “panoscopic” approach to scattering of heat carrying phonons across integrated length-scales. The cost of lower earth-abundance elements such as tellurium in PbTe-based thermoelectric materials, however, can potentially limit their application, but substituting tellurium with more abundant sulfur or selenium can reduce the material costs. Utilizing techniques developed with PbTe-based materials, lead sulfide- and lead selenide-based specimens have achieved ZT values of 1.1 to 1.4 via doping and additions to optimize nanostructuring.

Tuesday 1st

08:30 Alan Riga

Case Western Reserve University (CASE), USA

Title: Dielectric Thermal Analysis and Differential Scanning Calorimetry studies led to a unified Polaron Theory of Ionic Conduction of organic and inorganic crystalline materials

Unique variations in AC electrical conductivity of organic or inorganic solids were measured with respect to temperature, time and frequency and the resulting behavior has led to a unified theory of polaron conduction, the "ion hopping model". A wide range of organic solids were examined and include pharmaceuticals, polymers, amino acids and carbohydrates. Experimental results clearly show novel dielectric behavior of a linear increase in a log polar ionic conductivity vs. temperature in the pre-melt and melt transition regions with correlation coefficients of >0.990 . We have differentiated the solids which show the polar conductivity variations in the pre-melt from those with low conductivity in the liquid state only, i.e. the latter non polar wax and polyethylenes. The effect of various experimental factors, e.g. moisture and purity, on the results were evaluated and found not contributing to the ionic conductivity of the chemicals studied. Correlating calorimetric and dielectric analysis gave us a better understanding of solid state properties. Calorimetric analysis was employed to assure that the observed variations in the solid state conductivity were not due to impurities in the sample. ASTM E698, the DSC purity method, verified the chemical purity at >99.7 mole %. Activation energies were calculated based on the Arrhenius behavior, log conductivity vs. reciprocal temperature (K) and identified the conduction mode in the solid state. As the different chemicals were heat /cool cycled they become more amorphous with a decreasing activation energy and an increasing amorphous content.

14:00 Andrew Paul Monkman

Department of Physics, Science Laboratories, University of Durham, Durham, UK

Title: OLEDs, the dawn of ultra efficient lighting

Currently, 19% of the world's generated electricity is used for artificial lighting, and a further unknown percentage is used in air conditioning to remove the heat generated but current lighting sources. Thus, any improvement over the efficiency of current sources will make a huge impact on the use of global resources and CO₂ production. White OLEDs are now making real advances towards achieving this goal, and in the first part of my talk I will explain why and highlight the latest very promising results from many sources. It is clear from many recent reports of ultra efficient OLEDs that the major challenge for efficient white light generation and the realisation of OLED solid state lighting is an efficient, stable long lifetime blue emitter¹. Obviously, this could be a fluorescent emitter but phosphorescent would be much better. One major problem for the latter is the need for a high triplet energy host to accommodate the blue phosphor. One major problem with the former is the inefficiency of using only singlet excited states generated on recombination. In the second part of my presentation I shall focus on different strategies for utilizing high efficiency blue emitters, highlighting the pros and cons of each strategy. To avoid many of these problems, fluorescent emitter systems requiring low triplet energy hosts or no host to generate blue will be described. These systems generate greater than 25% internal quantum efficiency either by triplet fusion or using E-type delayed fluorescence in zero exchange energy charge transfer or exciplex systems. Such 'triplet harvesting' fluorescent blue constituents combined with red and green phosphorescent emitters in tandem or multilayer white OLEDs may well be the way forward to overcome the 'blue problem'.

Wednesday 2nd

08:30 Douglas Soares Galvão

Universidade Estadual de Campinas (UNICAMP), Brazil

Title: Challenges and Perspectives in Modelling Nanomaterials

With the advent of Nanotechnology there is a renewed interest in developing new computational techniques, at different levels of accuracy (from atomistic to mesoscale), to model nanomaterials. This renewed interest is motivated, in part, by the growing demand on miniaturization, new functionalities, and less power consuming systems. When the size scale is reduced, the existence of a free surface modifies significantly the dynamical aspects, in special with relation to structural stability and cost of defect formation. In this presentation we will discuss the use of theoretical tools to investigate some of these problems. In particular we will discuss unusual mechanical properties of carbon-based materials at nanoscale (negative Poisson's ratio), how to exploit these properties to create functional macromaterials (artificial muscles from carbon nanotube yarns), and the spontaneous formation of 'exotic' complex metallic structures (such as, suspended atomic chains and hollow silver nanotubes) that can exist only at nanoscale.

14:00 Juan Andrés

Universitat Jaume I (UJI), Spain

Title: Connecting theory with experiment: A survey to understand the behaviour of multifunctional metal oxides

Our ability to understand the physical and chemical behaviour of both structure and processes at the molecular and atomic levels has progressed rapidly over the last three decades, due to development of experimental techniques such as FESEM, STM, HRTEM, EXAFS, XANES, etc., and theoretical methods and computational techniques based on quantum mechanics and statistical mechanics. Theory and experiment each have different strengths and limitations, but these are complementary to a large extent and there is much to be gained by constructing research programs that combine the two. The combined use of theory and experiment permits on the one hand to analyze the many subtle features of the measured data, on the other hand to evidentiate limits and deficiencies of both approaches. Both experiment and theory are indispensable in modern nanoscience and nanotechnology.

The main challenge, when theory and experiment meet, is to find a common language connecting the results obtained by means of these two approaches. The accessibility of the systems to be investigated may be different at the atomic level. On the one hand, a wide range of structures and arrangements can theoretically be explored. In many cases, some of them are impossible to obtain experimentally, but the theoretical analysis provides a full picture of the effects that are present in real systems. After new experimental techniques developed, new experimental data appear, therefore theoretical models are called to help experimentalists to rationalize their results, but also makes predictions that challenge the capability of available experimental techniques in terms of the spatial, time and energy resolutions, and guide experimentalists to design new experiments.

Successful qualitative theories have two important functions. First, theories provide interpretations of the results of experiments and/or calculations that have already been performed. Second, the predictions made by the theories motivate both experimentalists and computational chemists to attempt to validate the theories by testing the predictions made by them. However, in some cases, it is not qualitative theories but the results of high-level calculations that motivate experimentalists to test how quantitatively accurate the calculations are. In other cases calculations are performed to see how well they reproduce experimental results that have already been obtained. When the results of calculations and experiments are found to be at odds with each other, additional experiments and/or calculations almost inevitably follow.

In the present talk, an overview of the results obtained by using this collaborative strategy will be presented, as an effort to achieve a closer look into the atomic level understanding of structure and processes involving multifunctional metal oxides. In particular, three main topics will be presented: (i) Surface structure as the key to manipulating the physicochemical properties as well as growth mechanisms of nanomaterials, (ii) Characterization of electronic excited states to understand and rationalize optical properties, and (iii) Calculation of three dimensional electron density distribution in materials, as an observable property, determining in whole or in part their physical/chemical properties.

Thursday 3rd**08:30** Anke Rita Kaysser-Pyzalla

Helmholtz-Zentrum Berlin für Materialien und Energie, Germany

Title: Research for Renewable Energies – Understanding and Controlling Materials Properties

The functionality of photovoltaic and photocatalytic devices for generation and storage of renewable energy is strongly determined by the microstructure, the optic and electronic properties of the materials used. In order to do the next big leap in research and design of photovoltaic devices, it is crucial to understand the interface and growth properties of multi-layer systems. For a production of fuels from solar energy it is the scientists' dream to directly convert solar radiation into hydrogen. Hence, it is essential to understand and control the generation and the transport of charge carriers in photocatalytic devices. Synchrotron radiation will play a key role in elucidating and characterizing the processes at the interface – may it be a solid-solid or solid-liquid one – and in the bulk of material systems.

The presentation will give insight into material research, process development and the analytical capabilities for energy material research at the large scale facilities (neutron source BER II and photon source BESSY II) of the Helmholtz-Zentrum Berlin (HZB). The emphasis is on new materials for renewable energy systems – HZB's two fields in energy research: thin film photovoltaics and solar fuels. An outlook is given to the upcoming capabilities of a new advanced analytics lab using synchrotron radiation.

MEETINGS

UNIVERSITY CHAPTERS MEETING

Opened for all students.

The goal of this Meeting is to foster the formation of University Chapters linked to SBPMat in connection with MRS. Prof. Orlando Auciello, president of MRS, Dr. Todd Osman, Executive Director of MRS, and prof. Roberto M. Faria, president of SBPMat will present the MRS University Chapter Program and how SBPMat can be involved in this Program.

TUESDAY (10/01) 10:50 h - HOTEL SERRA DA ESTRELA

MEETING WITH THE INSTITUTE OF PHYSICS

The goal of this Meeting, presented by Dr. Joe McEntee, the Head of Publishing, is to present all the programs and publications of the Institute of Physics (IOP).

WEDNESDAY (10/02) 10:50 h - HOTEL SERRA DA ESTRELA

SYMPOSIA SUMMARY

SYMPOSIUM	CHAIRS
A: Sol-Gel Materials: From Fundamentals to Advanced Applications	Ubirajara Pereira Rodrigues Filho, Universidade de São Paulo, Instituto de Química de São Carlos; Andrea de Camargo, Universidade de São Paulo, Instituto de Física de São Carlos; Sidney J.L. Ribeiro, Universidade Estadual Paulista "Júlio de Mesquita Filho", Instituto de Química Araraquara
B: Inorganic Thin Films - Methods and Applications	Antonio Ricardo Zanatta, Universidade de São Paulo, Instituto de Física de São Carlos; Marcelo Mulato, Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto; José Humberto Dias da Silva, Universidade Estadual Paulista - UNESP, Bauru SP, Brazil
C: Synthesis and Properties of Nanometric Materials	Ary da Silva Maia, Federal University of Paraíba, Brazil; Carlos Alberto Paskocimas, Federal University of Rio Grande do Norte UFRN, Brazil; Fabiana Villela da Mota, Federal University of Rio Grande do Norte UFRN, Brazil; Maurício Roberto Bomio Delmonte, Federal University of Rio Grande do Norte UFRN, Brazil
D: Materials and Devices for Renewable Energy, Sustainability and Environment Protection	Daniel Zanetti de Florio, Universidade Federal do ABC, Centro de Engenharia, Modelagem e Ciências Sociais Aplicadas; Francisco das Chagas Marques, Universidade Estadual de Campinas, Instituto de Física; Ana Flávia Nogueira, Universidade Estadual de Campinas, Instituto de Química; Fabio Coral Fonseca, Instituto de Pesquisas Energéticas e Nucleares, Centro de Células e Combustíveis e Hidrogênio
E: Structure- properties relationship of advanced metallic materials	Leonardo Barbosa Godefroid, Universidade Federal de Ouro Preto; Waldek Wladimir Bose Filho, Universidade de São Paulo, Departamento de Engenharia de Materiais, Aeronáutica e Automobilística; Luiz Carlos Rolim Lopes, Universidade Federal Fluminense; Juan Perez Ipiña, Universidad Nacional del Comahue, Argentina; Pedro Dolabella Portella, BAM: Federal Institute for Materials Research and Testing, Germany
F: Organic Electronics and hybrids: materials and devices	Alexandre Marletta, Universidade Federal de Uberlândia, Instituto de Física; Rodrigo F. Bianchi, Universidade de Ouro Preto, Instituto de Ciências Matemáticas e Biológicas, Departamento de Física; Cleber Renato Mendonça, Universidade de São Paulo, Instituto de Física de São Carlos; Ivan H. Bechtold, Universidade Federal de Santa Catarina, Departamento de Física; Ángel Alberto Hidalgo, Universidade Federal do Piauí, Centro de Ciências Naturais, Departamento de Física
G: Molecular Modeling Materials Science	Nelson Henrique Morgon, Universidade Estadual de Campinas, Instituto de Química; Aguinaldo Robinson de Souza, Universidade Estadual Paulista "Júlio de Mesquita Filho", Departamento de Química

SYMPOSIA SUMMARY

H: New Trends in Biomaterials and Nanomaterials Applied to Biosystems	Carlos Roberto Grandini, Universidade Estadual Paulista “Júlio de Mesquita Filho” / Bauru, Brazil; Ana Paula Rosifini Alves Claro, Universidade Estadual Paulista “Júlio de Mesquita Filho” / Guaratinguetá; Rossana Mara da Silva Moreira Thiré, Universidade Federal do Rio de Janeiro / COPPE, Brazil; Juliano Elvis Oliveira, Universidade Federal da Paraíba
I: Biohybrids and biomaterials	Roberta Brayner, Université Paris Diderot, France; Fernand Fiévet, Université Paris Diderot, France; Thibaud Coradin, Collège de France, France; Emerson Sales, Universidade Federal da Bahia; Mercedes Perullini, University of Buenos Aires, Argentina
(J/K/M): Damage Inspection – Techniques and Applications / X-ray Tomography and Radiography Imaging / Electron Microscopy: from micro to nanoanalysis	Jonhson Delibero Angelo, Universidade Federal do ABC; André Fenili, Universidade Federal do ABC; José Rubens Maiorino, Universidade Federal do ABC; Karl Peter Burr, Universidade Federal do ABC; Juan Pablo Julca Avila, Universidade Federal do ABC Augusta Isaac, Pontifícia Universidade Católica de Minas Gerais (PUC Minas), Brazil; Marcelo Hoennicke, Federal University of Latin American Integration (UNILA), Brazil; Ricardo Tadeu Lopes, Universidade Federal do Rio de Janeiro / COPPE, Brazil Luiz Fernando Zagonel, Universidade Estadual de Campinas, Instituto de Física; Leonardo Lagoeiro, Universidade Federal de Ouro Preto; Luciano Andrey Montoro, Universidade Federal de Minas Gerais, Departamento de Química; Jefferson Bettini, Centro Nacional de Pesquisa em Energia e Materiais, Laboratório Nacional de Nano Tecnologia – LNNano; Paola Barbosa, Centro de Microscopia da Universidade Federal de Minas Gerais; Carlos Alberto Ospina Ramirez, Centro Nacional de Pesquisa em Energia e Materiais (CNPEM) - Brazilian Nanotechnology National Laboratory (LNNano)
L: Surface Characterization: Techniques and Applications	Pedro A. P. Nascente, Universidade Federal de São Carlos, Centro de Ciência e Tecnologia, Departamento de Engenharia de Materiais; Maria Luiza Rocco, Universidade Federal do Rio de Janeiro, Instituto de Química, Departamento de Físico Química
N: Materials Education Symposium	Sergio Cava, Universidade Federal de Pelotas, Centro de Desenvolvimento Tecnológico; Mário Lúcio Moreira, Universidade Federal de Pelotas, Centro de Desenvolvimento Tecnológico; Vanderlei Bagnato, Universidade de São Paulo, Instituto de Física de São Paulo; Juan B. Carda, Universitat Jaume I, Departamento Química Inorgànica i Orgànica, Spain
O: Science, Engineering, and Commercialization of Next Generation of Industrial, Electronic and Biomedical Devices	R. Muccillo, Energy and Nuclear Research Institute – IPEN; Orlando Auciello, University of Texas, USA; José A. Varela, Universidade Estadual Paulista Júlio de Mesquita Filho, Instituto de Química de Araraquara
P: Advances in New Materials	B-MRS National Committee

TECHNICAL SCOPE

SYMPOSIUM A - Sol-Gel Materials: From Fundamentals to Advanced Applications

The Sol-Gel Process is one of the most widely used procedures for the synthesis of advanced ceramics, nanomaterials, hybrid and nanocomposite materials and a versatile tool for coating technology. Several commercial products based on sol-gel technology are on the world market, such as the 3M™ Cubitron™ Abrasive Grain. The estimated expansion rate of the sol-gel business worldwide is 7.96% according to TechNavio's analysts for the period from 2012 to 2016. Its wide success is due to simple and low temperature routes to produce a widespread number of multifunctional materials with applications in corrosion protection, art and historical patrimony conservation, optic materials and coatings, electronic coatings, catalysis, energy storage and production, biocatalysis and biosensors, environmental remediation, gas separation and storage, drug delivery, clinical analysis, image contrast agents, hard coatings, smart windows, radiation sensors, among other applications. In this symposium we intend to contemplate works on most of these areas, so as to give the participants an opportunity to learn and expand their awareness of the versatility and power of this methodology for obtaining materials aimed at advance applications.

- Sol-Gel Chemistry and New Precursors for Sol-Gel Chemistry;
- Aerogel;
- Sol-Gel for Photonics and Optical Devices;
- Hybrid Materials and Nanocomposites through Sol-Gel process;
- Sol-Gel Process For Corrosion Protection;
- Sol-Gel Materials and Photocatalysis, Photosynthesis, Photochromism;
- Sol-Gel for Dentistry and Medical Devices;
- Sol-Gel in Microelectronics;
- Sol-Gel and Heterogeneous (Bio) Catalysts;
- Magnetic and Photomagnetic Materials through Sol-Gel process;
- Sol-Gel and Materials for Energy Production, Transport, and Storage.

SYMPOSIUM B - Inorganic Thin Films - Methods and Applications

Flat panel displays, light-emitting sources, efficient-reliable computer (and communication) facilities, energy converters and many other opto-electronic devices represent a small sample of the most outstanding technological achievements of the last decades. In (almost) all of these cases, the Science and Technology of Thin Films played a fundamental role: either providing materials with new properties or the methods to make them real. In fact, the recent need for ultra-fast/low-consumption devices aiming better environmental practices continue pushing the Science and Technology of Thin Films towards the development of novel materials and/or new materials processing techniques. Motivated by this scenario, the present symposium represents an excellent opportunity to follow some of the advancements in the field as well as to present results, discuss ideas and establish future scientific cooperation.

- Novel materials in the form of films or nanostructures, as obtained by new or standard deposition techniques;
- Alternative or complementary routes for the achievement of novel materials and/or properties;
- Compositional, structural, electronic, magnetic or optical characterization of thin films and their relationship with the deposition/processing methods;
- Theoretical approaches involving the growth or the properties of thin films;
- Optical-electronic devices (construction, characterization, simulation) based on thin films;
- The Science and Technology of Thin Films applied to the development of data processing or storage;
- The Science and Technology of Thin Films applied to the development of energy storage or energy conversion;
- Flexible electronics and hybrid organic-inorganic devices: advances and prospects.

SYMPOSIUM C - Synthesis and Properties of Nanometric Materials

Nanoscience and nanotechnology cover areas of important scientific challenges bringing many new technological applications. In the area of nanomaterials, specifically, dimensions of particles determine the properties of these materials, changing its mechanical, optical, electrical and magnetic properties. In this sense, the present symposium will cover the synthesis of nanometric materials by different methods such as hydrothermal ones, mechanical alloying, Pechini, co-precipitation, combustion and others. Moreover, it will cover the evaluation of differential properties of these nanometric materials, as listed below:

- Synthesis of nanometric particles;
- Synthesis of thin films;
- Mechanical alloying;
- Electrical properties of nanometric materials;
- Magnetic properties of nanometric materials;
- Optical properties of nanometric materials;
- Mechanical properties of nanometric materials;
- Catalytic properties of nanometric materials.

SYMPOSIUM D - Materials and Devices for Renewable Energy, Sustainability and Environment Protection

Materials are a key feature for development technologies that can enable us to mitigate the undesired effects of the combustion of fossil fuels. Materials and Devices for Renewable Energy, Sustainability and Environmental Protection is an interdisciplinary topic covering all aspects of the study and research of materials and devices, experimental and theoretical works, for renewable and sustainable energy production, conversion, storage, saving including fuel production and energy pathways for the future. This symposium opens the opportunity to meet experts to discuss new concepts, trends and developments in science and industry energy.

- Fuel Cells;
- Photovoltaic Solar Energy;
- Thermal Solar Energy;
- Wind Energy;
- Energy Storage Devices and Materials;
- Bioenergy;

- Solar Fuels;
- Simulation & Modeling;
- Theory;
- Systems and grid integration aspects.

SYMPOSIUM E - Structure- properties relationship of advanced metallic materials

The objective of this Symposium is to discuss the relationships between processing, structure, properties and performance of advanced engineering metallic materials, with emphasis in new fabrication and characterization techniques.

- Techniques for microstructure and properties characterization;
- Fracture mechanics applied to structural integrity;
- Light alloys (Al, Mg, Ti) for automotive and aeronautical applications;
- Recent developments in steels for automotive industry and for gas/oil pipelines;
- Materials to resist fatigue and creep;
- Recent technologies for welding procedures.

SYMPOSIUM F - Organic Electronics and hybrids: materials and devices

The Symposium intends to bring together chemists, materials scientists, physicists, and engineers from both academia and industry to share information on the organic materials and hybrids for new technologies. It includes all types of organic / inorganic functional materials, their electronic and photophysics properties and device applications. The research topics include all types of synthesis, processing techniques (molecular crystals, multilayers, self-assemblies, and ultrathin films), compounds (composites and blends), micro- and nano-fabrication, interfaces, spectroscopic characterization (linear and non-linear), morphology, electronic, and photonic properties. In addition, the symposium is equally opened for electronic, photonic and hybrid devices: light-emitting diodes (LEDs), field-effect transistors (FETs), organic photovoltaics (PVs), integrated circuits, non-volatile memories, sensors, actuators and detectors.

- Synthesis of conjugated molecules and polymers, hybrid, and compounds;

- Interfaces: advances in material processing;
- Photonic, photophysic, and photochemistry of conjugated molecules and polymers;
- Organic, photonic, and hybrid devices;
- Micro- and nano-fabrication of organic or hybrid materials;
- Organic sensors and biosensors;
- Theoretical modeling of conjugated molecules or polymers and organic devices.

SYMPOSIUM G - Molecular Modeling Materials Science

The improving of hardware, software and computational techniques have been utilized in molecular modeling of complex materials including oxides, nitrides, and organic and inorganic semiconductors, paving the way to the development of new technological apparatus. The aim of this symposium will be focused on molecular modeling of materials devices and will cover topics from the fundamental theory and computational studies to modern advances in grid computing.

- Modeling of thin films and nanostructures;
- Grid computing technologies in materials Science;
- Novel molecular modeling methods;
- Density Functional Theory and TDDFT;
- Monte Carlo and Molecular Dynamics simulation of materials;
- Relativistic Quantum Chemistry applied to materials;
- Computer simulation applied to catalysis and supramolecular chemistry;
- Semi empirical methods applied to materials science.

SYMPOSIUM H - New Trends in Biomaterials and Nanomaterials Applied to Biosystems

The symposium will provide a platform for discussing current advancements and future trends in biomaterials for biomedical and dental applications and nanomaterials applied to biosystems. Through the synergistic approach of applied chemistry and physics, material science, electronics, mechanical engineering, biochemistry and medicine, this symposium about

biomaterials includes how the deeper insight into biological events and its interplay with nanotechnology may support the development of a generation of novel materials, micro-nano-devices and molecular level approaches suited to solve relevant biomedical problems both for therapy and diagnostics. New materials also play an important role in veterinary, agriculture, biotechnology, smart packaging, food industry and natural environment. The subject matter of the symposium reflects the wide range and transdisciplinary nature of research in materials science and engineering applied to biological systems. The symposium will provide an excellent opportunity to meet and establish collaboration with large number of experts with several specializations including engineering, basic sciences, pharmacists, medical and dental professionals, etc.

- Biomaterials in constructing tissue substitutes;
- Synthetic scaffolds as extracellular matrices;
- Bioinspired and biomimetic materials;
- Anti-infective biomaterials;
- Adhesive biomaterials;
- Biomaterials for cardiovascular applications, vascular grafts and embolic devices;
- Biomaterials for cancer therapy;
- Biomaterials for orthopedic and ophthalmic applications;
- Controlled Release;
- Biomaterials in dental applications;
- Materials applied to Agriculture, smart packaging;
- Biodegradable Polymers, Polymers from Renewable Resources and Hydrogels;
- Nanotoxicology and Nanoecotoxicology;
- Sensors and Biosensors.

SYMPOSIUM I - Biohybrids and biomaterials

Combining advanced materials with biology has become one of the most innovative research fields. This symposium will highlight recent advances in the design of functional materials that mimic, or are inspired by, materials found in nature. Materials prepared using biological systems, including living organisms and renewable sources and materials, will also be covered. Nanostructural control for the delivery of biological molecules and cells will be reviewed. Another topic of

focus will be hybrid materials specifically designed for biomedical applications.

- Session Topics;
- Biomimetic materials;
- Biomineralisation;
- Biosensors;
- Biocatalysts;
- Synthetic/biopolymer hybrids materials;
- Nanomedicine;
- Drug delivery;
- Bioreactors;
- Living materials;
- Bionanocomposites.

SYMPOSIUM (J/K/M) - Damage Inspection – Techniques and Applications / X-ray Tomography and Radiography Imaging / Electron Microscopy: from micro to nanoanalysis

Symposia J, K and M have formed a joint session named symposium JKM, “Characterization Techniques in Damage Inspection, X-ray Tomography and Radiography Imaging, and Electron Microscopy”. This merger maintains the original characteristics of each original symposium. Therefore, invited lectures and all abstract accepted will be presented under this new name. The symposium aims to gather together scientist and students using these techniques to share experience and to learn from each other from basic use to application reaching the state-of-the-art in those fields. Regarding the Techniques and Applications of Inspection for Damage, investigations on technologies developed for damage inspection involving material and structural failures as well as failure analyses techniques to determine its root causes will be presented. It is also a goal of this subsection of the symposium to present several possibilities of application of these technologies in real problems and the efforts to qualify personal able to use these techniques to improve equipment’s life extension. In X-ray Tomography and Radiography Imaging session, will be explained how hidden structures can be revealed in a non-destructive manner in heterogeneous materials using X-rays generated by synchrotron or X-ray sources. In addition, as the materials and components under study become increasingly complex, multi-modal imaging techniques and multi-scale studies are rapidly gaining importance. Therefore, the aim of

the part of the symposium is to provide information on the rapidly developing experimental imaging techniques with respect to novel potential applications. Applications to several fields ranging from engineering to biology, biomedical research, and geology will be presented.

Electron Microscopy is one of the most powerful tools for materials characterization and it is indispensable for nanoscience and nanotechnology. The combination of electron diffraction, x-ray spectroscopy and electron energy loss spectroscopy with many imaging modes puts electron microscopy among the most powerful and flexible characterization techniques. In recent years, many advances in electron optics and detectors systems have enhanced electron microscopes in several ways. This part of the symposium provides an open forum for the discussion of recent research using electron microscopy techniques applied to Material Science.

Inspection for Damage - Techniques and Applications:

- Non Destructive Testing and how to qualify personal to work with these techniques;
- Failure analyses and corrosive phenomena and how to prevent them;
- Electromagnetic techniques and its new development on failure prevention;
- Acoustic emission and news trends on failure prevention;
- Welding technology applied to new materials;
- Damage inspection in real systems.

X-ray Tomography and Radiography Imaging:

- Recent developments in synchrotron and conventional X-ray tomography;
- Phase-contrast imaging (tomography and radiography);
- Diffraction contrast imaging;
- X-ray fluorescence tomography;
- Imaging of dynamic systems;
- Digital radiography;
- X-ray topography;
- Application in materials science, life science, geology and engineering.

Electron Microscopy: from micro to nanoanalysis:

- TEM and SEM imaging for materials science characterization (including electron diffraction techniques - SAD, NBD, CBED, precession, EBSD);

- High-Resolution TEM imaging (including structural analysis, defects, quantitative analysis, reconstruction methods, HRTEM image simulation, among others);
- STEM and Z-contrast imaging for materials science characterization;
- EDS chemical analysis from micro to atomic scale (qualitative and quantitative analysis, chemical mapping, spectral imaging, multivariate statistical analysis);
- EELS chemical analysis from micro to atomic scale (qualitative and quantitative analysis, chemical state analysis and mapping, spectral imaging, multivariate statistical analysis);
- EFTEM imaging applied to chemical and structural analysis (including energy selected imaging, energy filtered diffraction and chemical mapping);
- In-situ electron microscopy techniques applied to dynamical events characterization;
- Electron microscopy enhancements by aberration corrected imaging;
- Other microscopy techniques applied to materials science and nanoanalysis (including tomography, holography, catholuminescence, Lorentz microscopy, environmental electron microscopy, AFM).

SYMPOSIUM L - Surface Characterization: Techniques and Applications

This Surface Characterization symposium deals with the physical principles, instrumentation, and applications of the main techniques used in surface characterization: X-ray photoelectron spectroscopy (XPS), Auger electron spectroscopy (AES), low energy electron diffraction (LEED), secondary ion mass spectroscopy (SIMS), atomic force microscopy (AFM), photoelectron diffraction (PeD), and x-ray absorption spectroscopy (XAS). It also includes synchrotronbased spectroscopy and spectro-microscopy. The program encompasses the development and application of experimental, theoretical, and simulation surface analysis techniques to investigate technologically relevant materials. Understanding the structure and chemical composition of surfaces and interfaces is essential in important fields such as catalysis, corrosion protection, electronic and photonic materials processing, energy, and environment. Invited talks will

be delivered by renowned researchers: Anouk Galtayries, from the Ecole Nationale Supérieure de Chimie de Paris (Chimie ParisTech), France; François Reniers, from the Université Libre de Bruxelles, Belgium; and Carsten Westphal, from the Technische Universität Dortmund, Germany..We will have oral and POSTER SESSION which will provide an opportunity for personal exchange and discussion of results with colleagues.

- Metal Surfaces;
- Oxide Surfaces;
- Ceramic Surfaces;
- Polymer Surfaces;
- Catalysts;
- Nanomaterials;
- Biomaterial Surfaces and Interfaces;
- Thin Films and Coatings;
- Surface Analysis Methods;
- Magnetic surfaces and spintronics.

SYMPOSIUM N - Materials Education Symposium

Materials Science is an example of the disciplines that connects the pure and applied sciences across many fields. This creates something we can call a wave of challenges, where the only interdisciplinary thinking can help achieve a balance between understanding and knowledge transfer necessary for engineers and other professionals today. This Symposium invites educators to work in the areas of materials, physics, chemistry, mathematics, biological sciences and engineering, describing his recent accomplishments, creative teaching styles, curriculum development and innovative. Contributions by educators at various levels are welcome, including schools, universities, technology centers and dissemination to the community at large.

This is a symposium in the area of innovative materials for the Brazilian Society for Materials Research (SBPMat) because it is not just a conference debated research but research and teaching materials. We find ourselves at a point where not only the research becomes as valid for the academic formation of new students and future professionals. We need education in the classroom is truly aggrandizing as the experience in professional practice, both in teaching, and in industry. We seek through this meeting narrowing the boundaries between teaching, research, industry and teaching.

TECHNICAL SCOPE

- Innovation and Challenger;
- Interdisciplinarity;
- Methods and Instructional Resources;
- Tutorials about New Materials;
- New processing techniques and characterization;
- Materials, Industry and Government;
- Engaging and inspiring students;
- Use of information technology in engineering education;
- Design, materials selection and industry;
- Materials and the Environment;
- Curriculum Development.

SYMPOSIUM O - Science, Engineering, and Commercialization of Next Generation of Industrial, Electronic and Biomedical Devices

The development of the next generation of industrial components and systems, micro and nanoelectronic devices and systems, and biomedical devices require a new generation and/or adaptation of materials and integration into new structures and devices. The science and technology of the new materials and integration will result in the commercialization of a new generation of industrial components and systems, micro/nanoelectronic devices and systems that will make major impacts in the way and quality of life of people worldwide.

Novel nanoscale processing, characterization, and modeling techniques are being developed to provide enhanced diagnosis and treatment of medical conditions. This symposium will have an interdisciplinary focus, and will cover current challenges in materials science, physics, chemistry, electronics, and biology, critical to the development of advanced micro and nanoscale biomedical devices. This symposium aims to promote interdisciplinary collaboration and discussion among the many groups involved in the development and use of nanoscale materials for biomedical devices, including scientists, engineers, clinicians, and manufacturers. Advances in research and clinical trials will be discussed.

The proposed symposium is relevant to the theme "Our Planet and Its Life: Origins and Futures" because it is an interdisciplinary examination of human biological processes and modern approaches to correct or ameliorate the degradation of human functionalities (e.g. lost of sight and hearing) induced by biological

degenerative processes. Early advanced diagnosis and treatment of human diseases and functional conditions is an area of scientific inquiry that will benefit mankind. New and exciting developments in nano-bio research will be discussed.

- Micro/Nanoelectronics;
- Industrial Components and Systems;
- Biomedical Devices;
- Functional Nanoceramics;
- How to bridge the gap between university and industry.

SYMPOSIUM P - Advances in New Materials

This symposium aims to cover advanced materials topics not included in the dedicated symposia of the B-MRS meeting. The symposium comprises only poster contributions. Submitted abstracts will be evaluated by the B-MRS National Committee and accepted according to the same quality criteria of the other symposia.

The symposium is open to students, faculties and industrial researchers with the expectation that the interactions among the meeting attendees will enable new collaborations and introduce new areas for future B-MRS meetings.

SYMPOSIUM A

Sol-Gel Materials: From Fundamentals to Advanced Applications

ORAL SESSIONS

* Invited Lecture

MONDAY, SEPTEMBER 30

SESSION OS1-14 (09:30 - 10:30) ROOM: 14

09:30 A-O1*

Inorganic Materials With Biological Activity

Sara Aldabe Bilmes¹; ¹Instituto Quimica Materiales, Medio Ambiente Y Energía

10:10 A-O2

Sol-Gel Derived Peo/chitosan/siloxane Hybrid Materials For Drug Delivery

Mayté Paredes^{1,2}, Sandra Helena Pulcinelli¹, Carlos Peniche³, Vanessa Cristina Gonçalves¹, Celso Valentim Santilli¹; ¹Instituto de Química Unesp Araraquara, ²Centro de Aplicaciones Tecnológicas Y Desarrollo Nuclear, ³Universidad de La Habana, Centro de Biomateriales

SESSION OS2-14 (10:50 - 12:30) ROOM: 14

10:50 A-O3*

Sol-Gel Chemistry and Self-Directed Assembly: A Way To Induce Order In Hybrid Materials

Verónica de Zea Bermudez¹; ¹Universidade de Trás- Os - Montes e Alto Douro

11:30 A-O4

Highly Corrosion Resistant Organic-Inorganic Hybrid Coatings Prepared By The Sol-Gel Process

Fábio Cesar dos Santos¹, Samarah Vargas Harb, Marie-Joëlle Menu, Viviane Turq, Marie Gressier, Sandra Helena Pulcinelli, Celso Valentim Santilli, Peter Hammer²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto de Química - Unesp/car

11:50 A-O5*

A Novel Functionality For Luminescent Organic-Inorganic Hybrid Materials

Luis Dias Carlos¹; ¹Universidade de Aveiro

SESSION OS3-14 (15:00 - 16:20) ROOM: 14

15:00 A-O6*

Graphene and Cnt-Based Aerogels: Synthesis and Applications

Marcus Andre Worsley¹; ¹Laboratorio Nacional de Lawrence Livermore

15:40 A-O7

Studies On Thermogelling Properties Of Pluronic Copolymer In The Presence Of Hydrophilic Fe₃O₄ Nanoparticle

Joy Shankar Nambam, John Philip, Maria Aparecida Godoy Soler

16:00 A-O8

Sol-Gel Derived Polyimide-Ormosil-Hpw Solid Electrolytes: A Spectroscopic Study

Fábio Augusto de Souza Ferreira¹, Ubirajara Pereira Rodrigues Filho¹; ¹Universidade de São Paulo

SESSION OS4-14 (16:40 - 18:00) ROOM: 14

16:40 A-O9*

Photocatalyst-Supporting Film For Water Disinfection At Rural Areas: From Lab. Scale To On-Site Experiments

Juan Rodriguez Rodriguez¹; ¹Universidad Nacional de Ingenieria

17:20 A-O10

Co-Doped ZnO Nanoparticles Synthesized By An Adapted Sol-Gel Method: Photocatalytic and Antibacterial Properties

Michele Karoline Lima¹, Daniela Martins Fernandes¹, Marcela Fernandes Silva¹, Celso V. Nakamura¹, Ângelo de Oliveira Caleare¹, Mauro Luciano Baesso¹, Vitor Santaella Zanuto¹, Ana Adelina W. Hechenleitner¹, Edgardo Alfonso G. Pineda¹; ¹Universidade Estadual de Maringá

17:40 A-O11

β-Hydroxyurethanes Pdms-Based Adhesives and Coatings

Kelen Menezes Flores Rossi de Aguiar¹, Carlos Alberto Picon, Germano Tremiliosi-Filho, Ubirajara Pereira Rodrigues Filho; ¹Universidade de São Paulo

TUESDAY, OCTOBER 01

SESSION OS5-14 (09:30 - 10:30) ROOM: 14

09:30 A-O12*

Multicomponent Sol-Gel Materials For Light, Magnetism, and Catalysis

Albert Stiegman¹; ¹Florida State University

PROGRAM

10:10 A-O13**Zn²⁺ Doped Ormosil-Phosphotungstate Hybrid Films With Enhanced Photochromic Response**Elias Paiva Ferreira Neto¹, Sajjad Ullah¹, Orlando Elguera Ysnaga¹, Ubirajara Pereira Rodrigues-Filho¹; ¹Universidade de São Paulo**SESSION OS6-14 (10:50 - 12:30)
ROOM: 14****10:50 A-O14*****Sol-Gel Made Functional Hybrid Silicas**Michel Wong Chi Man^{1,2}; ¹Institut Charles Gerhardt Montpellier, ²Ecole Nationale Supérieure de Chimie de Montpellier**11:30 A-O15****Synthesis, Characterization and Photoactivity Of Core-Shell SiO₂@TiO₂ Nanoparticles**Sajjad Ullah¹, Ubirajara Pereira Rodrigues-Filho¹; ¹Universidade de São Paulo**SESSION OS7-14 (15:00 - 16:20)
ROOM: 14****15:00 A-O16*****Sol-Gel Derived Precursors For Nanostructured Oxides**Flavio Maron Vichi¹; ¹Universidade de São Paulo**15:40 A-O17****Micro and Nanostructured Sol-Gel Rare Earth-Doped Materials For Photonic Applications**Rogéria Rocha Gonçalves¹; ¹Universidade de São Paulo**16:00 A-O18****New Approaches Towards Optical Materials Based On Coordination Metal Complexes and Organic Dyes Incorporated Into Sol-Gel Mesoporous Hosts**Moema de Barros e Silva Botelho¹, Thiago Branquinho de Queiroz, Andrea Simone Stucchi de Camargo; ¹Universidade de Brasília**SESSION OS8-14 (16:40 - 18:00)
ROOM: 14****16:40 A-O19*****Synthesis Of Sol-Gel Materials and Architectures For Electrochemical Energy Storage**Bruce Dunn¹; ¹University Of California, Los Angeles**17:20 A-O20****Multifunctional Catalysts Prepared By Sol-Gel Methodology Inside Green Chemistry Principle**Katia Jorge Ciuffi¹; ¹Universidade de Franca**17:40 A-O21****CeO₂-Based Qdots Loaded Ureasil-Polyethylene Oxide Matrixes With Controlled Optical Properties**Laurianne Truffault, Celso Valentim Santilli, Sandra Helena Pulcinelli**WEDNESDAY, OCTOBER 02****SESSION OS9-14 (09:30 - 10:30)
ROOM: 14****09:30 A-O22*****modern Solid State Nmr Strategies For Studying Structural Transformations In Non-Siliceous Sol-Gel Glass Systems**Hellmut Eckert¹; ¹Universidade de São Paulo**10:10 A-O23****Porous Sulfated Zirconia Prepared By So-Gel Process For Application In Heterogeneous Catalysis**Marinalva Aparecida Alves Rosa, Leandro Martins, Celso Valentim Santilli, Sandra Helena Pulcinelli**SESSION OS10-14 (10:50 - 12:30)
ROOM: 14****10:50 A-O24*****Architecture and Decoration At The Nanoscale**Galo Juan Soler-Illia^{1,2}; ¹Universidad de Buenos Aires, ²Comisión Nacional de Energía Atómica**11:30 A-O25****Synthesis and Characterization Of Eu³⁺-Doped Gd₂O₃-SiO₂ Oxides Binary Systems With Photoluminescent Properties.**Leonardo Alves Rocha¹, Lorena Pereira Baêta Durante, Daniela Pereira Santos, Marco Antonio Schiavon, Sidney José Lima Ribeiro, Jefferson Luis Ferrari; ¹Universidade Federal de São João Del Rei**11:50 A-O26*****Chalcogels: Novel High Surface Area Chalcogenide Aerogels**Mercouri Gregori Kanatzidis¹; ¹Northwestern University**POSTER SESSION****WEDNESDAY, OCTOBER 02****SESSION PS3 (16:40 - 18:00)
ROOM: Poster Session****A-P1 Sol Fraction Of Polypropylene/clay Modified By Gamma Irradiation - Microgel Evidence**Luiz Gustavo Hiroki Komatsu¹, Washington Luiz Oliani¹, Ademir Benévolo Lugão¹, Duclerc Fernandes Parra¹; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp**A-P2 Photochemical Activity Of Phosphotungstate Doped Ormosils**Ubirajara Pereira Rodrigues-Filho¹, Elias Paiva Ferreira Neto, Sajjad Ullah¹, Vinicius Claudio Zoldan², André Avelino Pasa², Petra Rudolf³, Sara Aldabe⁴; ¹Universidade de São Paulo, ²Universidade Federal de Santa Catarina, ³University Of Groenigen, ⁴Universidad de Buenos Aires

A-P3 Effect Of Thermal Treatment On The Microstructure Of Zirconia Foams Prepared By The Sol-Gel Process.

Cristiane Carolina Beozzo¹, Marinalva Aparecida Alves Rosa¹, Celso Valentim Santilli¹, Sandra Helena Pulcinelli¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

A-P4 Impedance Electrical Immunosensor For Hepatitis C Diagnostics Based On Biorecognition Between The Antigenic Peptide Ns5A-1 and The Antibody Anti-Hcv

Marli Leite de Moraes¹, Alem-Mar Bernardes Gonçalves, Lais Roncalho Lima, Fernando Vieira Paulovich, Osvaldo Novais Oliveira Jr, Sidney José Lima Ribeiro; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

A-P5 Synthesis and Characterization Of Nitio₃
Luiz Carlos Machado¹, Rodrigo Vieira Rodrigues², Emanuel Jose Bassani Muri¹, Antonio Augusto Lopes Marins¹, Paulo Cezar Cruz¹; ¹Universidade Federal do Espírito Santo, ²Universidade de São Paulo**A-P6 Luminescence Properties Of Cdse/zns Quantum Dots Embedded In Gpts-Derived Silica/organic Hybrid Colloids**

Lorena Dariane da Silva Alencar¹, Viviane Pilla², Dimas Roberto Vollet¹, Dario Antonio Donatti¹, Fábio Simões de Vicente¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de Uberlândia

A-P7 Electrical Properties Of Materials Hybrid Organic/silica Based Gpts -Teos Prepared By The Sol-Gel Method

Daniela Aparecida Monteiro¹, Giovanni Gozzi¹, Dante Luis Chinaglia¹, Dario Antonio Donatti¹, Dimas Roberto Vollet¹, Fábio Simões de Vicente¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

A-P8 Electrochemical Study Of The Influence Of The Cerium (Iv) Ions In A Teos - Gptms Film Deposited On Copper.

Eduardo dos Santos Freitas Cardoso, Patrícia Hatsue Suegama, Hercílio Gomes de Melo

A-P9 Rhodamine B-Doped Organic/silica Hybrid Materials Prepared By Sol-Gel: Study Of Luminescence and Films Preparation For Photonics Applications

Diego da Silva Manoel¹, Adriano J. G. Otuka², Paulo H. D. Ferreira², Cleber R. Mendonça², Dario Antonio Donatti¹, Dimas Roberto Vollet¹, Fábio Simões de Vicente¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade de São Paulo

A-P10 Study Of The Effect Of Pre-Acidification and Concentration Of Urea In The Synthesis Of Mullite Obtained By Sol-Gel

Fernanda Moreira Marques¹, Gilmar Patrocínio Thim², Tiago Moreira Bastos Campos²; ¹Universidade Federal de São Paulo, ²Instituto Tecnológico de Aeronáutica

A-P11 Quantitative Analysis Of Ormosil Thin Films Based On Energy Dispersive X-Rays Fluorescence (Edxrf) and Total Reflection and Grazing Incidence (Txrf/gixrf) Quantitative Analysis Of Ormosil Thin Films Based On Energy Dispersive X-Rays Fluorescence and Total Reflection and Grazing Incidence (Txrf/gixrf)

Orlando Elguera Ysnaga¹; ¹Universidade de São Paulo

A-P12 Luminescence Properties Of Mullite Doped With Ceo₂ Obtained By Chemical Process.

Eli Silveira Alves Júnior¹, Lauro June Queiroz Maia¹; ¹Universidade Federal de Goiás

A-P13 Eu³⁺-Doped Sio₂-Tio₂ Materials: Structure and Photoluminescence Properties.

Juliana Maria Martins Buarque¹, Sidney José Lima Ribeiro, Marco Antonio Schiavon¹, Jefferson Luis Ferrari¹; ¹Universidade Federal de São João Del Rei

A-P14 Simultaneous Electrochemical Determination Of Dopamine and Paracetamol Based On Hybrid Silica-Chitosan/ Cutspc⁴

Franciele de Matos Morawski¹, Jessica Viviana Hinostroza Ramos¹, Tânia Maria Haas Costa¹, Edilson Valmir Benvenutti¹, Silvio Luis Pereira Dias¹, Leliz Ticona Arenas¹; ¹Universidade Federal do Rio Grande do Sul

A-P15 Eu³⁺-Doped Tio₂: Structural and Photoluminescence Properties As A Function Of Annealing Temperature

Aline de Lima Pena¹, Daniela Pereira Santos, Juliana Maria Martins Buarque¹, Marco Antonio Schiavon¹, Jefferson Luis Ferrari¹; ¹Universidade Federal de São João Del Rei

A-P16 Ionic Silsesquioxane Film To Improve The Performance Of Carbon Paste Electrode For Detection Of Methyl-Parathion

Elisângela Muncinelli Caldas¹, Tania Mara Pizzolato¹, Tânia Maria Haas Costa¹, Silvio Luis Pereira Dias¹, Leliz Ticona Arenas¹, Edilson Valmir Benvenutti¹, Eliana Weber de Menezes¹; ¹Universidade Federal do Rio Grande do Sul

A-P17 Macroscopic Effect Of Solvent On The Structure Of Resorcinol-Formaldehyde Gels

Thalita Sani Taiariol¹, Elizabete Yoshi Kawachi¹, Luiz Claudio Pardini^{2,1}; ¹Instituto Tecnológico de Aeronáutica, ²Instituto de Aeronáutica e Espaço

A-P18 Ethylene Glycol Influence On Mullite Crystallization Kinetics

Tiago Moreira Bastos Campos¹, Gilmar Patrocínio Thim¹, Fernanda Moreira Marques²; ¹Instituto Tecnológico de Aeronáutica, ²Universidade Federal de São Paulo

A-P19 Silica Based Hybrid Material Containing Gold Nanoparticles Applied As Heterogeneous Catalyst For Azo Dye Decomposition

Carlos Daniel Gessi Caneppele¹, Maria Elisabete Machado¹, Elina Bastos Caramão¹, Éder Cláudio Lima¹, Tania Maria Haas Costa¹, Edilson Valmir Benvenuti¹, Eliana Weber de Menezes¹; ¹Universidade Federal do Rio Grande do Sul

A-P20 Effect Of The Catalyst Hf On The Properties Of Tio₂ And Tio₂/sio₂ Applied To Solar Cells

Marina Teixeira Laranjo¹, Natalia Carminatti Ricardi¹, Matheus Costa Oliveira¹, Leliz Ticona Arenas¹, Tânia Maria Haas Costa¹, Marcos Jose Leite Santos¹, Edilson Valmir Benvenuti¹; ¹Universidade Federal do Rio Grande do Sul

A-P21 Structural Characteristics Of Silica Gels Prepared With Additions Of Sodium Dodecylsulfate

Amanda Pasquoto Perissinotto¹, Carlos Miranda Awano¹, Dario Antonio Donatti¹, Fábio Simões de Vicente¹, Dimas Roberto Vollet¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

A-P22 Obtaining Mesoporous Tio₂ Using Chitosan As Template

Natália Carminatti Ricardi¹, Marina Teixeira Laranjo¹, Matheus Costa Oliveira¹, Leliz Ticona Arenas¹, Tânia Maria Haas Costa¹, Marcos Jose Leite Santos¹, Edilson Valmir Benvenuti¹; ¹Universidade Federal do Rio Grande do Sul

A-P23 Sba-16 Mesoporous Material Modified With Aptes/fa As A Carrier For Anticancer Drugs

Bruno Lacerda Tobias, Karina Silva de Oliveira Ferraz¹, André Luís Branco de Barros¹, Edésia Martins Barros de Sousa¹, Thais Cristina Soares Dantas¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear

A-P24 Highly Luminescent Eu-Complex Formation Into Ordered Mesoporous Silica Particles

Thassiana Silva Martins¹, Junia Natalia Mendes Batista¹, Eduardo José Nassar¹, Wilson Roberto Cunha¹, Sergio Ricardo Ambrosio¹, Rodrigo Veneziani¹, Lucas Alonso Rocha¹; ¹Universidade de Franca

A-P25 Semi-Interpenetrating Polymer Network Based On Poly(Dimethylsiloxane) (Pdms) and Poly(Dimethylaminoethyl Methacrylate) (Pdmaema)

Fábio Antônio Belinelli Silva¹, Fábio Luiz Pissetti¹, Fábio Herbst Florenzano¹; ¹Universidade Federal de Alfenas

A-P26 V₂O₅:zro₂ Thin Films Prepared By The Sol-Gel Process

Monique da Rocha Loi, Neftalí Lenin Villarreal Carreño, Katia Kastagno, André Gundel, César Antonio Oropesa Avellaneda

A-P27 An In-Situ Synthesis Of Mesoporous Sba-15/hydroxyapatite: Influence Of Morphology On Ciprofloxacin Drug Delivery

Érika Vital Pongeluppi Alves^{1,2}, Gracielle Ferreira Andrade^{1,2}, Edésia Martins Barros de Sousa²; ¹Universidade Federal de Minas Gerais, ²Centro de Desenvolvimento da Tecnologia Nuclear

A-P28 Silica Nanoparticles Of Family Sba_N: Synthesis, Characterization and Effect Of Particle Structure On Enzyme Adsorption

Pamela Luiza Povoas, Edésia Martins Barros de Sousa¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear

A-P29 Development Of Nanocomposites Based On Mesoporous Silica-Magnetite For Application In Hyperthermia

Raquel Cristina de Sousa Azevedo¹, Amanda Neves Lirio^{2,1}, Edésia Martins Barros de Sousa¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²Universidade Federal de Minas Gerais

A-P30 Laser Sintering Of Ce³⁺:y₃Al₅O₁₂

Jerre Cristiano Alves dos Santos¹, Eliane Pinheiro da Silva, Ronaldo Santos da Silva¹; ¹Universidade Federal de Sergipe

A-P31 Silica Aerogels Obtained By Ambient Pressure Drying With Different Concentrations Of Copolymer Pluronic F127

Taína Zampieri Fermino¹, Carlos Miranda Awano, Dario Antonio Donatti, Fábio Simões de Vicente, Dimas Roberto Vollet¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

A-P32 Evaluation Of Reversible Photochromic Effect Time-Constant Of Tungsten-Doped Organic/silica Hybrid Films

Rui Carlos Giorgi Filho¹, Dimas Roberto Vollet¹, Dario Antonio Donatti¹, Fábio Simões de Vicente¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

A-P33 Synthesis Of Boron-Aluminum-Silicate Glasses (Al₂O₃B₂O₃Sio₂) By Modified Sol Gel Method.

Aline Evangelista Aguiar¹, Lidiane Gomes da Silva, Guilherme Alves Limeira, Raphael Felca Glória, Flávio Soares Silva, Rossano Gimenes¹; ¹Universidade Federal de Itajubá

A-P34 Morphology and Electrochromic Properties Of Moo₃ Thin Films Prepared By The Sol-Gel Process

Rafaela Moreira Javier Lemos¹, José Carlos Bernedo Alcazar¹, Juliana Ramos de Andrade², Neftalí Lenin Villarreal Carreño¹, Agnieszka Pawlicka², Andre Gundel³, César Antonio Oropesa Avellaneda¹; ¹Universidade Federal de Pelotas, ²Universidade de São Paulo, ³Fundação Universidade Federal do Pampa

A-P35 Morphologic Study Of Inorganic Filler Based On Al_2O_3 - B_2O_3 - SiO_2 Glasses For Dental Resin Composites

Lidiane Gomes da Silva¹, Aline Evangelista Aguiar¹, Guilherme Alves Limeira, Raphael Felca Glória¹, Flávio Soares Silva¹, Rossano Gimenes¹; ¹Universidade Federal de Itajubá

A-P36 $\text{TiO}_2/\text{SiO}_2$ As An Enhancement Agent For Photochromic Behavior Of Hybrid Phosphotungstate Ormosils

Lidiane Patricia Gonçalves¹, Ubirajara Pereira Rodrigues Filho¹; ¹Universidade de São Paulo

A-P37 Palladium Or Gold Nanoparticles Stabilized By Ionic Silsesquioxane As Promising Catalysts For The P-Nitrophenol Reduction

Lídia Bernardes¹, Douglas Santana Charqueiro, Joanna Bassotto Zani, Tania Maria Haas Costa, Edilson Valmir Benvenuti, Eliana Weber de Menezes¹; ¹Universidade Federal do Rio Grande do Sul

A-P38 Excitonic Optical Properties Of CuBr and CuCl Nanoparticles Created In-Situ Into Organic/silica Hybrid Films Prepared By Sol-Gel

Lorena Dariane da Silva Alencar¹, Beatriz Marques Alves de Oliveira¹, Raquel Riciati do Couto Vilela¹, Dario Antonio Donatti¹, Dimas Roberto Vollet¹, Fábio Simões de Vicente¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

A-P39 Soft Hydrothermal Treatment and Water-Induced Crystallization Of Non-Crystalline Titania As Greener, Phase-Selective Routes For Anatase Synthesis

Sajjad Ullah¹, Beatriz Flores Coutinho Porfirio, Ubirajara Pereira Rodrigues Filho; ¹Universidade de São Paulo

A-P40 Photochromic Properties Of WO_3 And $\text{WO}_3 \cdot \text{ZrO}_2$ Thin Films

Daiane Mendes Landarin¹, José Carlos Bernedo Alcazar, Luis Otavio de Sousa Bulhões, César Antonio Oropesa Avellaneda; ¹Universidade Federal de Pelotas

A-P41 Optical and Electrochemical Properties Of SnO_2 And CeO_2 - SnO_2 Films

Itiane Borges Oliveira¹, César Antonio Oropesa Avellaneda¹, José Carlos Bernedo Alcazar¹, Katia Kastagno²; ¹Universidade Federal de Pelotas, ²Instituto Federal de Educação, Ciência e Tecnologia Sul

A-P42 A Potential Red Phosphor $\text{LaBO}_4:\text{Eu}^{3+}$ Methodology For Light-Emitting Diode Application

Carlos Roberto Matias¹, Eduardo José Nassar¹, Marc Verelst, Jannette Dexpert-Ghys, Lucas Alonso Rocha¹; ¹Universidade de Franca

A-P43 Interaction Mechanism Of Nanoparticles With Bacteria Evidenced By Multi-Structural Organization Of Tailored Silica-Lysozyme Composites

Luciane F. de Oliveira¹, Kaliandra Almeida Gonçalves², Jörg Kobarg², Mateus B. Cardoso¹; ¹Laboratório Nacional de Luz Síncroton, ²Laboratório Nacional de Biociências

A-P44 Silver-Silica Core-Shell Systems: Promising Antibacterial Agents Against Gram-Positive and Gram-Negative Bacterias

Jessica Fernanda Affonso de Oliveira^{1,2}, Ariadne Tuckmantel Bido^{1,2}, Mateus Borba Cardoso^{1,2}; ¹Universidade Estadual de Campinas, ²Laboratório Nacional de Luz Síncroton

A-P45 Magneto-Optical Studies Of Valence Instability Of Terbium Oxysulfate

Rodrigo Vieira Rodrigues¹, Jorma Hölsä^{1,2,3}, Mika Lastusaari³, Petriina Paturi², Jivaldo Rosário Matos¹, Hermi Felinto Brito¹; ¹Universidade de São Paulo, ²University Of Turku, ³Turku Center For Materials and Surfaces

A-P46 Synthesis and Characterization Of Photochromic Hybridmaterial Based On Short Chain Tri-Ureasils

Ana Beatriz Catel¹, Celso Molina; ¹Universidade Federal de São Paulo

A-P47 Use Of Pseudoboehmite In The Release Of Acyclovir

Antonio Hortencio Munhoz Jr.¹, Kelly C. Bertachini¹, Ana Maria Thiago de Souza¹; ¹Universidade Presbiteriana Mackenzie

A-P48 Influence Of The Sol-Gel Route On The Textural and Structural Properties Of Xerogels Containing Encapsulated Rhodamine

Cicero Coelho Escobar, João Henrique Zimnoch dos Santos

A-P49 Influence Of Heat Treatment Temperature On The Electrochemical Properties Of Glassy Polymeric Carbon Prepared From Phenolic Resin

Laura Santos Novais¹, Wesley Cardoso Muscelli¹, Herenilton Paulino Oliveira¹; ¹Universidade de São Paulo

A-P50 Preparation Of Carbon-Silica Composite Monoliths

Jane Karla de Faria Borges Machado¹, Herenilton Paulino Oliveira¹; ¹Universidade de São Paulo

A-P51 Electrochemical Characterization Of Vanadium Oxide Films Doped With Cobalt Deposited By Sol-Gel

Paulo Rogério Catarini da Silva¹, Douglas Langie da Silva²; ¹Universidade Estadual de Londrina, ²Universidade Federal de Pelotas

A-P52 Di-3N-Propyltrihydroxysilil-Diazoniabicyclo1,4[2,2,2] Octane Distearate Precursor Synthesis and Application

Geraldo Beyer Machado¹, Viviane - Dalmoro¹, Tânia Maria Haas Costa¹, Edilson V Benvenutti¹, Denise Sherman Azambuja¹; ¹Universidade Federal do Rio Grande do Sul

A-P53 Influence Of The Aluminum Hydroxide Molding On Thealumina Mechanical and Textural Properties

Daniela Cristina dos Santos Duarte¹, Amanda Cassiano de Souza¹, Camila Rocha Lima¹, Caio Henrique Pinheiro¹, Jorge Damião Souza, Marisa Aparecida Zacarias¹, José Augusto Jorge Rodrigues; ¹Universidade do Vale do Paraíba

A-P54 Synthesis Of Superconducting Cuprates By Methods Pechini and Microwave Assisted Hydrothermal

Regiane Godoy Lima¹, Cláudio Luiz Carvalho¹, Vivian Delmute Rodrigues¹, Gisele A Souza¹, Agda Eunice Souza², Silvio Rainho Teixeira², Rafael Zadorosny¹; ¹Faculdade de Engenharia Campus de Ilha Solteira, ²Fct-Unesp Campus de Presidente Prudente

A-P55 Further Evidences On The Effect Of Phosphotungstic Acid Addition To Ni/sio₂ On The Catalytic Performances In Water-Gas Shift Reaction

Renato Antonio Barba Encarnación¹, Elisabete Moreira Assaf¹, Ubirajara Pereira Rodrigues Filho¹; ¹Instituto de Química de São Carlos

A-P56 Sol-Gel Thin Films Of Ceo₂-Sio₂ As Ions Storage Layer For Electrochromic Device

Talita Marth Westphal¹, Marcos Berton², Luis Otavio de Sousa Bulhões³, César Antonio Oropesa Avellaneda¹; ¹Universidade Federal de Pelotas, ²Centro Internacional de Inovação, ³Centro Universitário Franciscano

A-P57 Ordered Silica Sba-16 Containing Gd-159 For Bioapplication: Synthesis and Characterization

André Felipe Oliveira¹, Edésia Martins Barros de Sousa¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear

A-P58 Preparation Of High-T_C Superconducting In The BscCo System With Pb Additions

Felipe Magalhães Aguiar¹, Vivian Delmute Rodrigues², Fernando Rogério de Paula²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Faculdade de Engenharia Campus de Ilha Solteira

A-P59 Production and Characterization Of Lani_(1-x)Fe_xO₃ For Sofc Applications.

Bruna Niccoli Ramirez¹, Márcia Tsuyama Escote, Fabio Coral Fonseca²; ¹Universidade Federal do ABC, ²Instituto de Pesquisas Energéticas e Nucleares

A-P60 Preparation Of Vitreous Na₂O-Cao-P₂O₅-Sio₂ System By The Polymeric Precursor Method For Obtaining Dental Cements

Silvia Denofre de Campos¹, Elvio Antonio de Campos¹, Mayara Gall¹, Fernanda Petzold Pauli¹; ¹Universidade Estadual do Oeste do Paraná

A-P61 Influence Of The Eu(III) Isoelectronic Doping Percentage In The Ba₂Sio₄ Phosphor Properties Prepared From Sol-Gel Method

Airton Germano Bispo Junior¹, Diego Ariça Ceccato¹, Sergio Antonio Marques Lima¹, Ana Maria Pires¹; ¹Fct-Unesp Campus de Presidente Prudente

A-P62 Silica/titania Matrices As Potential Photocatalyst: A Study Of Physical-Chemistry Parameters

Nayara Cely Ferreira da Silva, Renê Gomes da Silva, Mônica Freire Belian

A-P63 Influence Of The Heat Treatment In The Obtention Of The Bi-2223 Phase Produced By Pechini'S Method In The BscCo Pure and Doped With La

Vivian Delmute Rodrigues¹, Regiane Godoy Lima¹, Gisele Aparecida Souza¹, Cláudio Luiz Carvalho¹, Rafael Zadorosny¹; ¹Faculdade de Engenharia Campus de Ilha Solteira

A-P64 Thin Films Of Ag/tio₂ Prepared By Sol-Gel Process

Nelcy D. S. Mohallem¹, Paulo H P Cota¹, Luciana M Seara¹; ¹Universidade Federal de Minas Gerais

A-P65 Influence Of Amount Of Surfactant In Microstructure Of Ceramic Foams Of Zirconia

Douglas da Silva Fabricio dos Santos¹, Marinalva Aparecida Alves Rosa¹, Celso Valentim Santilli¹; ¹Instituto de Química - Unesp/car

A-P66 Entrapment Of Ferricyanide Ions On A Gold Electrode Surface Via Electrochemical Generation Of A Silica Matrix Onto A Self-Assembled Monolayer

Pedro Lemos de Almeida Junior¹, Carlos Henrique da Silva Mendes¹, Severino Carlos Bezerra de Oliveira¹, Valberes Bernardo do Nascimento¹; ¹Universidade Federal Rural de Pernambuco

A-P67 hydrophobic Textiles Prepared By Organofunctionalized Silica Nanoparticles

Elisangela Muncinelli Caldas¹, Jaqueline Cavalheiro Rodrigues¹, Marco Antônio Justino¹, Daniel Eduardo Weibel¹, Tânia Maria Haas Costa¹, Edilson Valmir Benvenutti¹; ¹Universidade Federal do Rio Grande do Sul

A-P68 Dopant Concentration Influence In Sr_(1-x-y)Al₂O₄:eu_y²⁺Dy_x³⁺

David Vieira Sampaio¹, Natalilian Roberta da Silva Souza¹, Nicaellen Roberta da Silva Souza¹, Jerre Cristiano dos Santos¹, Ronaldo Santos da Silva¹; ¹Universidade Federal de Sergipe

A-P69 Laser Sintering and**Luminescence Characterization Of $\text{Mg}_2\text{O}_4:\text{Eu}^{2+}$, Dy^{3+} (M=Ca, Sr, Ba)**

Natalilian Roberta da Silva Souza¹, Deyvid Carmo Silva,
Nicaellen Roberta da Silva Souza, Jerre Cristiano dos
Santos, David Vieira Sampaio¹, Ronaldo Santos da
Silva¹; ¹Universidade Federal de Sergipe

**A-P70 Controlled Release Of Tetracycline
Incorporated Into Bioactive Glasses**

Ângela Leão Andrade¹, Jadson Cláudio Belchior²,
Rosana Zacarias Domingues²; ¹Universidade Federal de
Ouro Preto, ²Universidade Federal de Minas Gerais

**A-P71 Development Of Sol-Gel TiO_2 Coatings On
Superelastic Niti Alloys Used In Dental Appliances**

Diego Pinheiro Aun, Manuel Houmard, Vicente Tadeu
Lopes Buono

**A-P72 Tuning The Non-Photochemical Inhibition
Of Escherichiacoli Biofilm Formation On
Phosphotungstate-Ormosils Bydoping With TiO_2
Nanoparticles**

Luciana Valgas de Souza¹, Janice Rodrigues Perussi²,
Wanessa de Cássia Martins Antunes Melo², Hidetake
Imasato¹, Ubirajara Pereira Rodrigues
Filho¹; ¹Universidade de São Paulo, ²Interunidades em
Bioengenharia Eesc/fmrp/iqsc

**A-P73 Impedance Spectroscopy Study Of SiO_2 -
 $\text{Li}_2\text{O}:\text{Nd}_2\text{O}_3$ Glasses**

Mauro Miguel Costa¹, Rodrigo Pereira, Ilde Guedes,
Lynn A Boatner, Cipriano Gozzo; ¹Universidade Federal
de Mato Grosso

**A-P74 Influence Of Sol Counterions On
 TiO_2 Nanoparticles**

Maria Paula Seabra¹, David Maria Tobaldi¹, Robert
Carlyle Pullar¹, João Antônio Labrincha¹; ¹Universidade
de Aveiro

**A-P75 In Situ Sol-Gel Synthesis Of Magnetoelectric
Barium Titanate/nickel-Cobalt Ferrite Composite**

Diego Mauricio Sandoval Cerón¹, Ruth H. G. A.
Kiminami¹; ¹Universidade Federal de São Carlos

**A-P76 Processing Oxide/metallic Nickel
Nanocomposites By Sol - Gel Modified Method**

Ronald Beyner Mejia Sanchez, Roberto R de
Avillez¹; ¹Pontifícia Universidade Católica do Rio de
Janeiro

**A-P77 The Effect Of Hydroxyurea (Hu) In The
Phase Transitions Of Collagen Gels**

Antônio Valadão Cardoso, Ellen Denise Lopes Alves

**A-P78 Copper Catalyst Supported On Porous
 ZrO_2 For Ethanol Dehydrogenation Reaction**

João Victor Schiavon¹, Leandro Martins¹, Wellington
Henrique Cassinelli¹, Marinalva Aparecida Alves
Rosa¹; ¹Instituto de Química de Araraquara - Unesp

SYMPOSIUM B

Inorganic Thin Films - Methods and Applications

ORAL SESSIONS

* Invited Lecture

TUESDAY, OCTOBER 01

SESSION OS7-3 (15:00 - 16:20)

ROOM: 3

15:00 B-O1**Comparisons Between Amorphous Silicon Carbide
and Diamond Siliconized Thin Films.**

Lúcia Vieira Santos^{1,2}, Fernanda Lucas², Felipe
Miranda², Marciel Guerino³, Rodrigo Sávio Pessoa^{1,2},
Nierlly Karinni de Almeida Maribondo Galvão¹, Thiago
Augusto Lima⁴, Homero Santiago Maciel^{1,2}, Fernando
Galembeck⁵; ¹Instituto Tecnológico de
Aeronáutica, ²Universidade do Vale do
Paraíba, ³Instituto Tecnológico da
Aeronáutica, ⁴Universidade Estadual de
Campinas, ⁵Centro Nacional de Pesquisa em Energia e
Materiais

15:20 B-O2**Photoluminescence Of Ti_xO_y Thin Films Doped
With Er After Thermal Annealing**

Diego Leonardo Silva Scoca¹, Mônica Morales
Corredor¹, Antonio Ricardo Zanatta², Fernando
Alvarez¹; ¹Universidade Estadual de
Campinas, ²Instituto de Física de São Carlos

15:40 B-O3***Thin Films and Nanostructured Materials For
Mems,moems and Microfluidic Devices Applications.**

Inês Pereyra¹; ¹Universidade de São Paulo

SESSION OS8-3 (16:40 - 18:00)

ROOM: 3

16:40 B-O4**Nucleation and Formation Of Gan Films By Reactive
Sputtering**

Ziani de Souza Schiaber¹, José R. Ribeiro Bortoleto¹,
José Humberto Dias da Silva²; ¹Universidade Estadual
Paulista "Júlio de Mesquita Filho", ²Departamento de
Física - Faculdade de Ciências - Unesp/bauru

PROGRAM

17:00 B-O5

Effects Of Oxygen Flow Modulation During Deposition Of Titanium and Cobalt Oxide Films By Reactive Sputtering

José Humberto Dias da Silva¹, Andre Luiz Pereira², Nilton Francelosi Azevedo Neto¹, Javier Acuña³, Iuri Stefani Brandt³, André Avelino Pasa, Armando Beltran⁴, Paulo Noronha Lisboa-Filho¹; ¹Universidade Estadual Paulista, ²Universidad Politécnica de Valencia, ³Universidade Federal de Santa Catarina, ⁴Universitat Jaume I

17:20 B-O6*

Sputter Deposition Of Amorphous Thin Films and Nanoparticles

Martin Kordes

WEDNESDAY, OCTOBER 02

SESSION OS9-3 (09:30 - 10:30)

ROOM: 3

09:30 B-O7

Synthesis and Mechanical Behaviour Of Al₂O₃/ZnO Multilayers Via Atomic Layer Deposition

Mikhael Bechelany^{1,2}, Rejin Rhagavan², Damian Frey², Johann Michler², Ivo Utke²; ¹Université Montpellier II Sciences Et Techniques Du Languedoc, ²Swiss Federal Laboratories For Material Science and Technology

09:50 B-O8*

Plasmonic Solar Cells Based On Group Iii-Arsenide Heterostructures

Daniel Maria Schaad¹; ¹Technische Universität Clausthal

SESSION OS10-3 (10:50 - 12:30)

ROOM: 3

10:50 B-O9

Study Of Amorphous Diamond-Like Carbon (DLC) Via Automated Reactor Aiming Repeatability and Traceability Of Tribological Results.

Fernanda Lucas, Felipe Souza Miranda, Mayara Oliveira Silva, Roberson José da Silva, Rodrigo Sávio Pessoa, Homero Santiago Maciel, Lucia Vieira Santos

11:10 B-O10

Synthesis Of Ferroelectric BFO Thin Films Obtained By Cross Beam PLD

Dagoberto Cardona¹; ¹Universidad Nacional Autónoma de México

11:30 B-O11

Multifaceted Structured Tungsten Oxide Films Obtained Through Thermal Evaporation

Irene Teresinha Santos Garcia¹, Julia Cristina Oliveira Pazinato, Diogo Silva Corrêa²; ¹Universidade Federal do Rio Grande do Sul, ²Universidade Federal de Pelotas

11:50 B-O12*

Cu₂O Electrodeposited Layers.

Andre Avelino Pasa¹; ¹Universidade Federal de Santa Catarina

SESSION OS11-3 (15:00 - 16:20)

ROOM: 3

15:00 B-O13

Nanofabrication Of High Quality Biocompatible Thin Films With Controllable Structure By Right Angle Magnetron Sputtering (Rams)

Elvis Oswaldo López Meza, Alexandre Malta Rossi, Alexandre Mello de Paula Silva

15:20 B-O14

Structural and Magnetic Properties Of Co-Doped ZnO Dilute Magnetic Thin Films Prepared By Electron Beam Physical Vapor Deposition Method

Niko Churata Mamani¹, Angela Ortiz de Zevallos¹, Alexandre Mesquita², Person Pereira Neves¹, Xavier Gratsens³, Valmir Antonio Chitta³, Maria Ines Basso Bernardi, Antonio Carlos Doriguetto¹, Hugo Bonette de Carvalho¹; ¹Universidade Federal de Alenas, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universidade de São Paulo

15:40 B-O15*

Mid-Gap, Near Infrared D-D Transitions As Efficient Electron Trap States In Co₃O₄

Tanja Cuk¹; ¹University Of California Berkeley

THURSDAY, OCTOBER 03

SESSION OS13-3 (09:30 - 10:50)

ROOM: 3

09:30 B-O16*

A Voltage Controlled Nano-Injection System For Single-Cell Surgery

Nader Pourmand¹; ¹University Of California Santa Cruz

10:10 B-O17*

Soft Devices and Systems.

Sigurd Wagner¹, Oliver Graudejus, Sigrid Adriaenssens, Branko Glisic, Naveen Verma, James Sturm; ¹Princeton University

POSTER SESSION

WEDNESDAY, OCTOBER 02

SESSION PS3 (16:40 - 18:00)

ROOM: Poster Session

B-P1 Memory Characteristics Of Mos Capacitors With Germanium Nanodots Embedded In Gates Oxides

Segundo Nilo Mestanza Munoz¹, Melissa Mederos Vidal¹, Ioshiaki Doi², José Alexandre Diniz²; ¹Universidade Federal do ABC, ²Universidade Estadual de Campinas

B-P2 Electrical Properties Of Nanocrystalline Ga_{1-x}Mn_xAs Film Prepared By Magnetron Sputtering

João Carlos Angelico¹, André Luis de Jesus Pereira¹, José Humberto Dias da Silva¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

B-P3 Influence Of Temperature On The Corrosion Resistance Of Ti-6Al-4V Coated By Plasma-Assisted Pvd Deposited Tin In Hcl Solution.

Verônica Oliveira¹, Carla de Aguiar¹, Amira Muci Vazquez¹, Alain - Robin¹, Miguel Justino Ribeiro Barbosa¹; ¹Escola de Engenharia de Lorena

B-P4 Coating Of Plasma Electrolytic Oxidation To Alloy Aa3104-H19

Luciene Vanessa Maia Rocha¹, César A Antonio², Nilson Cristino Cruz², Célia Marina A. Freire¹; ¹Universidade Estadual de Campinas, ²Universidade Estadual Paulista "Júlio de Mesquita Filho"

B-P5 Defects In Thin Titanium Films As A Function Of Deposition Parameters

Mauro Angelo Alves¹, Luiza de Castro Folgueras¹, Mirabel Cerqueira Rezende¹; ¹Instituto de Aeronáutica e Espaço

B-P6 Solar Cell Intended Annealing Effects On The Optical, Structural and Electrical Properties Of Commercial Indium Tin Oxide (ITO) Thin Films

Luíz Gustavo Simão Albano¹, Douglas Marcel Gonçalves Leite¹, Carlos F. O. Graeff¹; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru

B-P7 Improved Method For Calculation Of Optical Constants Of Semiconductors Using Spectral Data

Carlos Guilherme Gonçalves de Azevedo, José Pedro Mansueto Serbena, Kleber Daum Machado, Mariana Couto Siqueira, José Humberto Dias da Silva

B-P8 Influence Of Electrochemical Studies In Molecular Orientation Of F¹⁶Cdpc Films

Paula Baréa¹, Adonilson Reis Freitas², Valtencir Zucolotto³, Luciana Gaffo¹; ¹Universidade Estadual do Oeste do Paraná, ²Universidade Estadual de Ponta Grossa, ³Universidade de São Paulo

B-P9 Pani/fto Film With Changed Sensitivity For Ion Sensor

Hugo José Dias Mello¹, Tobias Heimfarth¹, Marcelo Mulato¹; ¹Universidade de São Paulo

B-P10 Defect-Mediated Excitation Of Yb Ions In Amorphous Sin Films

Cristina Ribeiro¹, Ivan Gallo¹, Antonio Ricardo Zanatta¹, Uwe Jahn², Manfred Ramsteiner²; ¹Instituto de Física de São Carlos, ²Paul-Drude-Institut Für Festkörperelektronik

B-P11 Photoinduced Hydrophilicity Of Titanium Dioxide Thin Film Prepared By Sol-Gel Dip Coating

João Trajano da Silva Neto¹, Paulo Renato Perdigão Paiva², Aline Geise Vitor Silva², Angela de Mello Ferreira²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Sudeste de Minas Gerais, ²Centro Federal de Educação Tecnológica de Minas Gerais

B-P12 Anodizing Tungsten: Influence Of The Modifier Agent Na₂Hpo₄

Irene Teresinha Santos Garcia¹, Guilherme Sombrio¹, Julia Cristina Oliveira Pazinato¹, Henri Ivanov Boudinov¹, Nadja Berenice Dias da Costa²; ¹Universidade Federal do Rio Grande do Sul, ²Universidade Federal de Pelotas

B-P13 Nano-Surface Modification By Ion Bombardment In Ferroelectric Thin Films.

Cristiano Alves Guarany¹; ¹Universidade Federal de Uberlândia

B-P14 Polyvinyl Alcohol As Structuring Agent For Obtaining Wo₃ Thin Films

Julia Cristina Oliveira Pazinato¹, Irene Teresinha Santos Garcia¹; ¹Universidade Federal do Rio Grande do Sul

B-P15 Recycling Ti⁰ As Raw Material For Oxide Films

Natalia Biziak de Figueiredo¹, Julio Cesar Ugucioni¹, Débora Fernandes Costa Guedes¹, Jesus Djalma Pecora¹, Marcelo Mulato¹; ¹Universidade de São Paulo

B-P16 Improvement Of The Wear Properties Of A Diamond-Like Carbon Film Coated On Ultrahigh Molecular Weight Polyethylene For Biomaterials

Jéssica Pereira dos Santos^{1,2}, Sérgio Camargo^{1,2}; ¹Universidade Federal do Rio de Janeiro, ²Engenharia Metalúrgica e de Materiais

B-P17 Deposition Of Cobalt Oxide Films With Interruption Of The O₂ Flow By Reactive Dc Sputtering

Nilton Francelosi Azevedo Neto¹, André Luis de Jesus Pereira², Paulo Noronha Lisboa-Filho¹, José Humberto Dias da Silva¹; ¹Faculdade de Ciências - Unesp/bauru, ²Universidad Politécnica de Valencia

B-P18 Influence Of Annealing Parameters On Structural Andoptical Characteristics Of Tio₂ Films

Rodrigo Garcia Toniato, Andre Luiz Pereira, José Humberto Dias da Silva¹; ¹Faculdade de Ciências - Unesp Bauru

B-P19 Determining The Thickness Of Thin Films Of Zinc Oxide and Aluminum By Ftir Spectrum Analysis

William Emanuel Silva Santos Viana¹, Nestor Santos Correia¹, Marcelo Bento Pisani¹, Gesil Sampaio Segundo¹; ¹Universidade Estadual de Santa Cruz

B-P20 Comparison Of Electrochemical Behavior Between Cerium Conversion Layer, Hybrid Films and Ce-Hybrid Films Deposited On Az31 Alloy

Patrícia Hatsue Suegama¹, Riberto Nunes Peres¹, Maria Fátima Montemor², Hercílio Gomes de Melo³, Assis Vicente Benedetti⁴, Eduardo dos Santos Freitas Cardoso¹; ¹Fundação Universidade Federal da Grande Dourados, ²Universidade Técnica de Lisboa, ³Universidade de São Paulo, ⁴Instituto de Química - Unesp/car

B-P21 Construction Of A Josephson Junction In Superconducting Thin Films System

Bi_{1.8}Pb_{0.4}Sr₂Cu₂O_x Heat Treated In A Conventional Microwave Oven

Gustavo Quereza Freitas, Claudio Luiz Carvalho, Rafael Zadorosny

B-P22 Alternating Current Anodizing Of Ti-6Al-4V In Phosphoric Acid: Morphological, Electrochemical and Cellular Aspects

Eduardo Norberto Codaro¹, Heloisa Andréa Acciari¹, Marinalda Claudete Pereira¹, Natal Nerímio Regone², Luana Marotta de Vasconcellos³, Evelyn Luzia Santos³, Gabriela Esteves de Campos³; ¹Faculdade de Engenharia de Guaratinguetá - Unesp, ²Campus Experimental de São João da Boa Vista, ³Faculdade de Odontologia de São José dos Campos

B-P23 Copper Seeds For High Quality Electrodeposition Of Cocu Alloys Nanostructures On Silicon

Fernando Rogério de Paula¹, Edna Regina Spada, Marta Elisa Rosso Dotto, Maria Luisa Sartorelli²; ¹Faculdade de Engenharia Campus de Ilha Solteira, ²Universidade Federal de Santa Catarina

B-P24 Zn₀:al / Sn₀:al Heterolayer Thin Films Produced Through Citrate Method

Eder Carlos Ferreira de Souza¹, André Vitor Chaves de Andrade¹, Sandra Regina Masetto Antunes¹, Christiane Philippini Ferreira Borges¹, Augusto Celso Antunes¹; ¹Universidade Estadual de Ponta Grossa

B-P25 Study Of {113} Defects Induced By Xe⁺ Implantation In Si(001) By High Resolution X-Ray Diffraction

Guilherme Calligaris de Andrade¹, Alan Silva de Menezes, Adenilson Oliveira dos Santos, R. C. Lang, Lisandro Cardoso; ¹Universidade Estadual de Campinas

B-P26 The Effect Of The Morphology Of Iron Phthalocyanine Thin Films On Sensing Performance Toward Atrazine Herbicide

Rafael Jesus Gonçalves Rubira¹, Carlos José Leopoldo Constantino²; ¹Fct-Unesp Campus de Presidente Prudente, ²Universidade Estadual Paulista

B-P27 Study Of The Magnetic Properties Of A BscCo Superconducting Film Thermally Treated In A Domestic Microwave Oven

João Borges da Silveira¹, Cláudio Luiz Carvalho¹, Rafael Zadorosny¹; ¹Faculdade de Engenharia Campus de Ilha Solteira

B-P28 Fabrication Of Mos Tunnel Diodes Using Rtp Silicon Oxynitrides

Verônica Christiano¹, Sebastião Gomes dos Santos Filho¹; ¹Universidade de São Paulo

B-P29 Study Of Diamond Like Carbon Against Corrosion In Hermetic Package Pressure Sensors

Alex Nunes Silva¹, Nilton Itiro Morimoto¹, Roberto Koji Onmori¹; ¹Universidade de São Paulo

B-P30 Preparation Of Ordered Feal Thin Films Deposited By Sputtering

Raphael Evandro Araujo¹, Luis Eugenio Fernandez Outon¹, José Domingos Ardisson¹, Waldemar Augusto de Almeida Macedo¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear

B-P31 Optical and Electrical Characterization Of Thin Film Junction Of Cds and Cupc

Edinilton Moraes Cavalcante¹, Victor Ciro Solano Reynoso¹; ¹Faculdade de Engenharia Campus de Ilha Solteira

B-P32 Properties Characterization Of Pmma Polymer Doped With Cupc-Cds

Victor Ciro Solano Reynoso¹, Edinilton Moraes Cavalcante¹; ¹Faculdade de Engenharia Campus de Ilha Solteira

B-P33 Antibacterial Effect Of The Plasma Silver Films Deposited On Nonwoven Polyester Fabric

Michelle Cequeira Feitor¹, Thercio Henrique de Carvalho Costa¹, Edalmy Oliveira Almeida¹, Igor Oliveira Nascimento¹, Clodomiro Alves Junior²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal do Semi-Árido

B-P34 Structural and Optical Properties Study Of Vanadium Oxide Thin Films With Different Thickness.

Luis Henrique Amorin¹, Larissa da Silva Martins¹, Paulo Rogério Catarini da Silva¹, Alexandre Urbano¹; ¹Universidade Estadual de Londrina

B-P35 Cobalt Oxide Thin Films Deposited By Spray Pyrolysis Over Fto Conductive Layer

Antonio Shigueaki Takimi¹, Raquel Pereira Reolon², Ramagusto Porciúncula Vieira², Carlos Pérez Bergmann²; ¹Universidade Federal de Pelotas, ²Universidade Federal do Rio Grande do Sul

B-P36 A Superhydrophobic Nanocoated Applied On Cotton Fabric By Wet Chemical Process

David Jonas Sousa¹, Poincyana Solani Holanda¹, Jose Heriberto Oliveira Nascimento¹, Augusto Santos Silva¹, Rivaldo Leonn Cabral¹, Marcos Silva Aquino¹; ¹Universidade Federal do Rio Grande do Norte

B-P37 Aluminum Surface Modification By Plasma Electrolytic Oxidation

Vinicius Ramos Nunes Oliveira¹, Deborah C.r. Santos¹, Roberto Yuzumi Honda², Rogerio Pinto Mota²; ¹Faculdade de Tecnologia de Pindamonhangaba, ²Faculdade de Engenharia de Guaratinguetá - Unesp

B-P38 Optical Effect Of Monovalent Cu⁺ Impurities Indielectric Films Of Rbcl

Lígia Oliveira Ruggiero¹, Otávio Galo Foster²; ¹Departamento de Física - Faculdade de Ciências - Unesp/bauru, ²Faculdade de Engenharia de Bauru

SYMPOSIUM C

Synthesis and Properties of Nanometric Materials

ORAL SESSIONS

* Invited Lecture

MONDAY, SEPTEMBER 30

SESSION OS1-2 (09:30 - 10:30)
ROOM: 2

09:30 C-01

Magnetic Properties Of Nanocomposites By Mechanochemical Synthesis

Lenine Campos Miranda¹, Eduardo Padrón Hernández; ¹Universidade Federal de Pernambuco

09:50 C-02*

Growth Of Thin Films For Environmental Applications

Valérie Bouquet¹, Stéphanie Députier¹, Stephanie Boursicot¹, José Fernando Dagnone Figueiredo¹, Andre Luiz Menezes de Oliveira², Odile Merdrignac-Conanec¹, Ingrid Tavora Weber³, Iêda Maria Garcia Santos², Maryline Guilloux-Viry¹; ¹Université de Rennes 1, ²Universidade Federal da Paraíba, ³Universidade de Brasília

SESSION OS2-2 (10:50 - 12:30)
ROOM: 2

10:50 C-03

Photon Up-Conversion and Magnetic Properties Of Rare Earths-Doped Nayf₄ Nanoparticles

Carlos Rettori, Ali Francisco Garcia Flores, Guilherme George Lesseux, Ricardo Rodrigues Urbano, Wellington Akira Iwamoto

11:10 C-04

Oxidation Of Magnetite Based Nanocomposites

Camila Jéssica Letti, Leonardo Giordano Paterno, Marcelo de Assunção Pereira da Silva, Paulo Cesar Moraes, Maria Aparecida Godoy Soler

11:30 C-05

magnetic-Luminescent Nanoparticles Containing Fe₃O₄ Functionalized With Rare Earth Complexes.

Latifullah Khan¹, Hermi Felinto Brito, Kleber Roberto Pirola², Diego Muraca², Maria Cláudia Felinto³; ¹Universidade de São Paulo, ²Universidade Estadual de Campinas, ³Nuclear and Energy Research Institute, Ipen-Usp/sp

11:50 C-06

Ferroelectric Ceramic/polymer Composite As Multifunctional Material

Walter Katsumi Sakamoto¹, Giuliano Pierre Estevam², Ricardo Luiz Barros de Freitas¹, Ricardo Tokio Higuti¹, Aparecido Augusto Carvalho¹, José Antonio Malmonge¹, Alex Otávio Sanches¹, Gilberto Campos Fuzari Junior³; ¹Faculdade de Engenharia Campus de Ilha Solteira, ²Fatec - Araçatuba, ³Universidade Federal de Mato Grosso

12:10 C-07

Bulk Nanostructured Pb(Fe_{1/2}Nb_{1/2})O₃ and Pb(Fe_{2/3}W_{1/3})O₃ Ceramics Obtained Through Spark Plasma Sintering

William Junior Nascimento¹, Roney Carlos da Silva¹, Barbara M. Fraygola¹, José Antônio Eiras¹; ¹Universidade Federal de São Carlos

SESSION OS3-2 (15:00 - 16:20)
ROOM: 2

15:00 C-08

Focused Electron Beam Deposition: A Direct Write Method For Nanosensors With Novel Materials

Ivo Utke¹; ¹Swiss Federal Laboratories For Material Science and Technology

15:20 C-09

Highly Luminescent Polymer Films Doped With Tetrakis Ln³⁺-β-Diketonate Complexes

Jiang Kai¹, Tiago Becerra Paolini², Marco Aurélio Guedes³, Hermi Felinto Brito², Maria Cláudia Felinto⁴, Oscar Loureiro Malta⁵; ¹Universidade Federal de São Paulo, ²Instituto de Química, Universidade de São Paulo, ³Instituto Federal de Santa Catarina, ⁴Nuclear and Energy Research Institute, Ipen-Usp/sp, ⁵Universidade Federal de Pernambuco

PROGRAM

15:40 C-O10**Nanostructured Coatings To Protect Metallic Materials At High Temperatures**

Lalgudi Venkataraman Ramanathan¹, Stela Maria Carvalho Fernandes¹, Marina Fuser Pillis¹, Cecílio Alvares Cunha¹, Olandir Vercino Correa¹; ¹Instituto de Pesquisas Energéticas e Nucleares

16:00 C-O11**Preparation, Characterization and Antibacterial Activity Of Nitric Oxide-Releasing Polymeric Nanoparticle.**

Adelia Maria Narciso¹, Gerson Nakazato², Renata Katsuko Takayama Kobayashi², Nidia Ayumi Kitice¹, Viviane Ferreira Cardozo², Amedea Barozzi Seabra¹; ¹Universidade Federal de São Paulo, ²Universidade Estadual de Londrina

TUESDAY, OCTOBER 01**SESSION OS5-2 (09:30 - 10:30)****ROOM: 2****09:30 C-O12****Photocatalytic Discoloration Of Textile Dye By Srsno₃**

Lais Chantelle de Lima¹, Márcia Rejane Santos da Silva¹, Sandro Marden Torres¹, Ary da Silva Maia¹, Elson Longo², Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Instituto de Química - Unesp/car

09:50 C-O13***Semiconducting Nano-Heterostructures: Relation Between Synthesis Method and Photocatalytic Performance**

Vagner Romito de Mendonça, Osmando Ferreira Lopes^{1,2}, Tania Regina Giralardi³, Raul Fregonesi¹, Cauê Ribeiro Oliveira²; ¹Universidade Federal de São Carlos, ²Empresa Brasileira de Pesquisa Agropecuária, ³Universidade Federal de Alfenas

SESSION OS6-2 (10:50 - 12:30)**ROOM: 2****10:50 C-O14****Photocatalytic Properties Of Tio₂ Obtained By The Microwave-Assisted Solvothermal Method**

Kleber Figueiredo Moura¹, Márcia Rejane Santos da Silva¹, Sandro Marden Torres¹, Ary da Silva Maia¹, Elson Longo², Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Instituto de Química de Araraquara - Unesp

11:10 C-O15**Evaluation Of The Agrototoxic Photodegradation By Niobium Pentoxide**

Luiz Ferreira Neves Jr., Elaine Cristina Paris¹; ¹National Nanotechnology Laboratory For Agribusiness, Embrapa Instrumentation

11:30 C-O16**Wo₃/tio₂ Heterostructure: Photocatalyst In Water Treatment**

Jéssica Ariane Oliveira¹, Tania Regina Giralardi¹, Isabela Alves de Castro², Elaine Cristina Paris³, Cauê Ribeiro Oliveira³; ¹Universidade Federal de Alfenas, ²Universidade Federal de São Carlos - Campus: São Carlos, ³Embrapa Instrumentação

11:50 C-O17**Ba_{1-x}Sr_xSnO₃ Applied In The Photocatalytic Degradation Of An Organic Dye**

Herbet Bezerra Sales¹, Valérie Bouquet², Stéphanie Députier, Sophie Ollivier², Francis Gouttefangeas², Maryline Guilloux-Viry², Vicent Dorcet², Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Université de Rennes 1

12:10 C-O18**Cytotoxicity and Genotoxicity Evaluations Of Nitric Oxide Donor Superparamagnetic Iron Oxide Nanoparticles**

Amanda Franco Ludescher¹, Renata de Lima², Jhones Luis Oliveira², Ana Carolina Ferrarini¹, Amedea Barozzi Seabra¹, Paula Silvia Haddad¹; ¹Universidade Federal de São Paulo, ²Universidade de Sorocaba

SESSION OS7-2 (15:00 - 16:20)**ROOM: 2****15:00 C-O19*****Heterogeneous Catalysis and Nanotechnology: Relation, Challenges and Perspectives**

Cristiane Alves Sierra-Pereira¹, Alano Vieira da Silva Neto¹, Ernesto A. Urquieta-Gonzalez¹; ¹Universidade Federal de São Carlos

15:40 C-O20**A Comparison Among Polymeric Composites Processing Equipments and Their Efficiency For Ceramic Reinforcement Dispersion**

Hamilton Magalhães Viana^{1,2}, Claudio Roberto Passatore², Cristiane Reis Martins³, Newton Haruo Saito⁴; ¹Centro Universitário Fundação Santo André, ²Universidade Federal do ABC, ³Universidade Federal de São Paulo, ⁴Faculdade Senai de São Paulo

16:00 C-O21**Rice Straw and Husk Synthesized Cellulose Nanocrystals and Electro-Structural Modifications In The Presence Of Metallic Ions**

Vanessa Lima Albernaz¹, Graziella A. Joanitti, Claudio A. P. Lopes, Luciano Paulino Silva; ¹Universidade de Brasília

WEDNESDAY, OCTOBER 02**SESSION OS9-2 (09:30 - 10:30)****ROOM: 2****09:30 C-O22****Self-Assembly Of Metal Oxide Directed By The Solvent-Organic Capping Interaction**

Cleocir José Dalmaschio, André Farias de Moura, Edson Roberto Leite

09:50 C-O23**Synthesis and Characterization Of Zno Nanoparticles Obtained By Organic Precursor**

Louise Patron Etcheverry¹, Wladimir Hernandez Flores, Eduardo Ceretta Moreira; ¹Fundação Universidade Federal do Pampa

10:10 C-O24**One Pot Synthesis Of Iron Oxide/alginate Acid Nanocomposites**

Sérgio de Lemos Campello¹, Ana Cláudia Araújo², Walter Mendes de Azevedo¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal Rural de Pernambuco

SESSION OS10-2 (10:50 - 12:30)**ROOM: 2****10:50 C-O25****Synthesis and Characterization Of Calcium Aluminates Through The Polymeric Precursor Method**

Failli Cintia Tomsen Veiga¹, Sergio da Silva Cava¹, Mário Lúcio Moreira¹, Cristiane Wienke Raubach², Elson Longo³; ¹Universidade Federal de Pelotas, ²Universidade Federal de São Carlos, ³Instituto de Química - Unesp/car

11:10 C-O26**Sol-Gel Synthesis and Characterization Of Ceria-Zirconia Nanopowders**

Maria do Carmo de A. Nono¹; ¹Instituto Nacional de Pesquisas Espaciais

11:30 C-O27**Clays Impregnated With Ceo₂, Zno and CuO By The Microwave-Assisted Hydrothermal Method For Biodiesel Production**

Ana Flávia Felix Farias¹, Kleber Figueiredo Moura¹, Jakeline Daniela Soares da Silva Nascimento², Adriana Almeida Cutrim³, Severino Jackson Guedes¹, Elson Longo⁴, Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Bentonita do Nordeste S.a., ³Universidade Federal de Campina Grande, ⁴Instituto de Química de Araraquara - Unesp

11:50 C-O28**Morphological Diagram Of Fe-Nanotitanates Produced Via Hydrothermal Synthesis Starting From A Brazilian Ilmenite Sand**

Antonio Mario Leal Martins Costa¹, Bojan Marinkovic¹, Sidnei Paciornik¹; ¹Pontifícia Universidade Católica do Rio de Janeiro

12:10 C-O29**Synthesis and Properties Of Silica-Coated Multiwallcarbon Nanotubes**

Kayo Oliveira Vieira¹, Jefferson Luis Ferrari¹, Marco Antonio Schiavon¹; ¹Universidade Federal de São João Del Rei

SESSION OS11-2 (15:00 - 16:20)**ROOM: 2****15:00 C-O30****Sr₂Fe₂O₇ Core-Shell System Applied In The Catalytic Reduction Of NO By CO**

Guilherme Leocádio Lucena¹, Ary da Silva Maia¹, Elson Longo², Cristiane A. Sierra-Pereira³, Ernesto A U Gonzales³, Yiu Lau Lam⁴, Rodolfo E. Roncolato⁴, Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara, ³Universidade Federal de São Carlos, ⁴Cenpes Petrobras

15:20 C-O31**Growth and Characterization Of Fluorine Doped SnO₂ Nanobelts**

Cleber Alexandre Amorim¹, Cleocir José Dalmaschio¹, Edson Roberto Leite¹, Adenilson José Chiquito¹; ¹Universidade Federal de São Carlos - Campus: São Carlos

15:40 C-O32**Synthesis and Nonlinear Optical Characterization Of Colloidal Ag Nanoparticles Dispersed In Bmi.bf₄**

Nivea Fernanda Corrêa¹, Cassio Eraclito Alves Santos¹, Luciane F. de Oliveira, Jairton Dupont², Márcio André Rodrigues Cavalcanti Alencar¹, Jandir Miguel Hickmann¹; ¹Universidade Federal de Alagoas, ²Universidade Federal do Rio Grande do Sul

16:00 C-O33**Enhanced Ferromagnetism In CuO Nanowires On The Top Of CuO Nanograins**

Jose Antonio Souza, Felipe Barsanufio Pereira, Alejandro Zuniga, Renato de Figueiredo Jardim, Sueli Hatsumi Masunaga

POSTER SESSION

MONDAY, SEPTEMBER 30

SESSION PS1 (16:40 - 18:00)

ROOM: Poster Session

C-P1 Synthesis Of Nanostructured Semiconductive Alloy Nbo By Mechanical Alloying and Its Structural Properties CharacterizationThiago Pulcinelli Orlandi Nogueira¹; ¹Universidade Federal do Amazonas**C-P2 Synthesis and Characterization Of Nanostructured Zno, Cuo and Zno/cuo By A Modified Sol-Gel Method**Laís Truzzi Silva¹, Ana Adelina W. Hechenleitner¹, Daniela Martins Fernandes¹, Mauro Luciano Baesso¹, Michele Karoline Lima¹, Gutierrez Rodriguês Morais¹, Edgardo Gómez Pineda¹; ¹Universidade Estadual de Maringá**C-P3 Synthesis, Characterization and Antibacterial Activity Of Agnps Adsorbed Onto Mcc**Bruna da Silva Pereira¹, Edgardo Gómez Pineda¹, Celso V. Nakamura¹, Ângelo de Oliveira Caleare¹, Mauro Luciano Baesso¹, Gutierrez Rodriguês Morais¹, Daniela Martins Fernandes¹, Ana Adelina W. Hechenleitner¹; ¹Universidade Estadual de Maringá**C-P4 Synthesis and Structural Characterization Of The Nanostructured Manganite**La_{0.6}Sr_{0.4}MnO₃ Obtained By Pechini Method.
Richard Javier Caraballo Vivas¹, Vivian Andrade¹, Sandra Pedro¹, Daniel Leandro Rocco¹, Mario de Souza Reis¹; ¹Universidade Federal Fluminense**C-P5 Synthesis Of Silver Nanoparticles By Microwave Assisted Chemistry.**Francine Ramos Scheffer¹, Felipe Castro¹, Daniel Eduardo Weibel¹; ¹Universidade Federal do Rio Grande do Sul**C-P6 TiO₂ Nanoparticles Obtained By The Pechini With Potential Use In Solar Cells**Débora Albuquerque Vieira^{1,2}, Pollyana Caetano Ribeiro², Ana Cristina Figueiredo de Melo Costa Costa³, Ruth Herta G. Aliaga Kiminami⁴; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba, ³Universidade Federal de Campina Grande, ⁴Universidade Federal de São Carlos - Campus: São Carlos**C-P7 Synthesis and Tailoring Of TiO₂ Nanostructures By A Nonaqueous Sol-Gel Method**Román Alvarez Roca¹, Edson Roberto Leite¹; ¹Universidade Federal de São Carlos**C-P8 Synthesis and Characterizations Of Nanostructured Cu-Doped Manganite Systems**Ivy Velasques Kern Queirós, Ricardo Alexandre Galdino da Silva, Fabio Furlan Ferreira, Sergio Gama, Paula Silvia Haddad**C-P9 Photoluminescence Properties Of Few₄ Nanorods Synthesized By The Surfactant-Assisted Microwave-Hydrothermal**Marcio Aurélio Pinheiro Almeida¹, Laécio Santos Cavalcante², Ederson Carlos Aguiar³, Máximo Siu Li⁴, José Arana Varela³, Elson Longo³; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho", ²Universidade Federal do Piauí, ³Universidade Estadual Paulista Júlio de Mesquita Filho, ⁴Universidade de São Paulo**C-P10 Hydrotalcite-Hydroxyapatite Composite Synthesized By Ultrasound.**Patricia Magalhães Pereira¹, José Augusto Corrêa¹, Thiago Martins¹, Elizabeth Soares Rodrigues¹; ¹Universidade Federal do Pará**C-P11 Synthesis and Characterization Of Mcm-41 Silica Nanoparticles Containing Sm³⁺ Ion Complexes**Edita Gil¹, Juliana Jorge¹, Gustavo Rocha Castro², Marco Antônio Utrera Martines¹; ¹Universidade Federal de Mato Grosso do Sul, ²Universidade Estadual Paulista Júlio de Mesquita Filho**C-P12 Synthesis and Characterization Of ZrO₂: Tb+3,tm+3,eu +3**Laura Ximena Lovisa¹, Fabiana Villela da Motta¹, Mauricio Roberto Bomio Delmonte¹, Carlos Alberto Paskocimas¹, Rubens Maribondo do Nascimento¹, Raimison Bezerra de Assis, Mara Tatiane de Souza Tavares; ¹Universidade Federal do Rio Grande do Norte**C-P13 Rare Earth Modified Pzt Prepared By Oxidant Peroxo Method (Opm)**Liliana Kaori Yamada, Edson Roberto Leite, Elson Longo, Emerson Rodrigues Camargo**C-P14 Optical and Structural Characterization Of Ce-Doped and Pure Zno Nanoparticles Sonochemically Treated.**Bruna Carolina Costa¹, Larisa Baldo Arruda¹, Luciana Daniele Trino¹, Paulo Noronha Lisboa-Filho¹; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru**C-P15 Synthesis and Characterization Of Mesoporous Silica Sba-15 Functionalized With Commercial Chitosan**Fernanda Alves da Silva¹, Jivaldo do Rosário Matos², Lucildes Pita Mercuri¹; ¹Universidade Federal de São Paulo, ²Universidade de São Paulo**C-P16 Influence Of Substrate and Temperature Deposition On The Synthesis Of Bi₁₂TiO₂₀ Thin Films By Pulsed Laser Deposition**Luiz Fernando Gorup¹, Valérie Bouquet, Stéphanie Députier, Vicent Dorcet, Maryline Guilloux-Viry, Iêda Maria Garcia Santos², Elson Longo, Andre Esteves, Emerson Rodrigues Camargo; ¹Universidade Federal de São Carlos - Campus: São Carlos, ²Universidade Federal da Paraíba

C-P17 Investigation Of Formation and Growth Of Ag Of The Ag₂W₄ Obtained By Microwave.

Leandro Silva Matos¹, Cristiane Raubach Ratmann¹, Elson Longo¹; ¹Laboratório Interdisciplinar de Eletroquímica

C-P18 Synthesis and Photocatalytic Properties Of Different Zinc Oxides/hydroxides Structures: A Mechanistic Study

Vagner Romito de Mendonça¹, Osmando Ferreira Lopes¹, Ahmad Umar², Cauê Ribeiro Oliveira; ¹Universidade Federal de São Carlos, ²Najran University

C-P19 In Situ Microwave Combustion Synthesis Of Magnetoelectric Composites Batio3/cofe2O4 Nanopowders

Marcio Roberto de Freitas¹, Ruth H. G. A. Kiminami¹, Graziela Pentean Bessa¹; ¹Universidade Federal de São Carlos - Campus: São Carlos

C-P20 Synthesis and Characterization Of One-Dimensional Nanostructures Of Germanium Dioxide

Letícia dos Reis Gonçalves¹, Han Pang Huang¹, Alexandre José de Castro Lanfredi¹; ¹Fundação Universidade Federal do Abc

C-P21 Study Of Synthesis Of Silver Nanoparticles Using Protecting Agents – Poly(Vinyl Alcohol)(Pva): Effects Of The Molar Relation Precursor/reducing and Pva Concentrations

Estela Mary de Sá¹, Ariovaldo Bolzan¹, Ricardo Af Machado¹; ¹Universidade Federal de Santa Catarina

C-P22 Obtaining Bazro₃ Nanopowders With Hight Cristallinity At Low Synthesis Time

Wagner Dias Macedo Junior¹, Agda Eunice Souza¹, Silvio Rainho Teixeira¹, Elson Longo²; ¹Fct-Unesp Campus de Presidente Prudente, ²Universidade Estadual Paulista Júlio de Mesquita Filho

C-P23 Synthesis and Characterization Of Calcium Aluminate Obtained By The Method Of Ethylenediaminetetraacetic Acid

Valéria Rejane Silva Brito¹, Raquel Jovita dos Santos¹, Paulo Neilson Marques dos Anjos¹, Analu Rocha Costa¹, Luiz Carlos Salay¹; ¹Universidade Estadual de Santa Cruz

C-P24 Influence Of Ph On The Structure and Photocatalytic Activity Of Titanium Dioxide Nanoparticles

Nágila El Chamy Maluf, Francini Pizzinato Kataoka, Fenelon Martinho Pontes, Debora Silva Pontes, Elson Longo^{1,2}; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru

C-P25 Luminescence Investigation Of Bawo₄:r³⁺ (R³⁺: Eu, Tb) Nanophosphors Prepared By A Soft Chemistry Method

Helliomar Pereira Barbosa¹, Ivan Guide Nunes da Silva¹, Lucas Carvalho Veloso Rodrigues¹, Maria Claudia França da Cunha Felinto², Hermi Felinto Brito¹; ¹Universidade de São Paulo, ²Nuclear and Energy Research Institute, Ipen-Usp/sp

C-P26 Synthesis Of Catalysts Based On Metallic and Bimetallic Nanoparticles Supported On Montmorillonite K-10

Bianca Andrade de Campos¹, Ângela Albuquerque Teixeira Neto¹; ¹Universidade Federal do Abc

C-P27 Chemical Modification Of Maghemite Nanoparticles Using Dbsa Applied In The Crude Oil Production

Gabriela Cabral Bremenkamp¹, Luiza Alves Mendes¹, Kamila Soares do Espirito Santo, José Eduardo dos Santos Clarindo, Fernando Gomes de Souza Junior, Geiza Esperandio Oliveira; ¹Universidade Federal do Espírito Santo

C-P28 Synthesis Of Core-Shell Clay@sno2 By Different Chemical Methods

Alex Meireles Neris, Philipe Araújo Silva, Ana Flávia Felix Farias¹, Adriana Almeida Cutrim, Jakeline Daniela Soares da Silva Nascimento, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba

C-P29 Synthesis and Characterization Of Calcium Phosphates Of Biological Interest

Anahi Herrera Aparecida¹, Diego Clemente de Souza², Izabel B. C. Silva³, Rafael P. de Moraes¹, Antonio Carlos Gustaldi¹; ¹Instituto de Química de Araraquara - Unesp, ²Universidade de São Paulo, ³Universidade Federal da Paraíba

C-P30 Effect Of Microwave Hydrothermal Treatment In The Synthesis and Photoluminescent Proprieties Of Bt:sm.

Ana Paula Pais Mendes¹, Leilane Roberta Macario², Elson Longo^{1,2}; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho

C-P31 Photoluminescence At Room Temperature In Batio₃:sm³⁺ Powders Obtained By Soft Chemistry Route.

Ana Paula Pais Mendes¹, Leilane Roberta Macario², Elson Longo^{1,2}; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho

C-P32 Synthesis Of Nickel Nanoparticles Supported On Carbon By Ultrasonic Spray Pyrolysis Method

Vanessa Luciane Oliveira, Patricia Maria Patrizi Pratta, Germano Tremiliosi-Filho

C-P33 Synthesis and Photocatalytic Properties Of Zno and Physical Mixture Of Zno/cuo In Dye Degradation

Wilian Vidotto da Costa¹, Michele Karoline Lima¹, Marcela Fernandes Silva¹, Bruna da Silva Pereira¹, Laís Truzzi Silva¹, Mariani Armagni Ciciliati¹, Daniela Martins Fernandes¹, Ana Adelina W. Hechenleitner¹, Edgardo Gómez Pineda¹; ¹Universidade Estadual de Maringá

C-P34 Synthesis Of Gold Nanoparticles Self-Assembled Systems With Controlled Size By Turkevich Method

Andressa Mayumi Kubo, Luiz Fernando Gorup¹, Luciana da Silva Amaral, Edson Rodrigues Filho, Edson Roberto Leite, Elson Longo, Emerson Rodrigues Camargo; ¹Universidade Federal de São Carlos - Campus: São Carlos

C-P35 Synthesis and Characterization Of Nanostructured Zno and Cuo Using Sugarcane Bagasse As Raw Material

Cesar Augusto Machado Moraes, Michele Karoline Lima, Marcela Fernandes Silva, Ana Adelina W. Hechenleitner, Paulo Rodrigo Stival Bittencourt, Edgardo Gómez Pineda

C-P36 Modification Of Turkevich Method Of Synthesis Of Silver Nanoparticles

Francisco Nunes de Souza Neto¹, Elson Longo², Edson Roberto Leite¹, Emerson Rodrigues Camargo¹; ¹Universidade Federal de São Carlos - Campus: São Carlos, ²Instituto de Química de Araraquara - Unesp

C-P37 Chemical, Morphological and Magnetic Analyzes Of Particles Obtained By Electrochemical Deposition

Fabio Muchenski¹, Ney Mattoso, José . Varalda; ¹Universidade Federal do Paraná

C-P38 Synthesis Of Tio₂-Sio₂ Nanocomposite For Water Adsorption Applications

Susana Fátima Resende¹, Renata Figueredo Martins¹, Eduardo Henrique Martins Nunes¹, Manuel Houmard¹, Wander Luiz Vasconcelos¹; ¹Universidade Federal de Minas Gerais

C-P39 Synthesis, Characterization and Study Of Photoluminescence Properties Of Ca1-X-Ytmxybytio3.

Sandra de Cássia Pereira¹, Máximo Siu Li², Elson Longo³, Alberthmeiry Teixeira de Figueiredo¹; ¹Universidade Federal de Goiás - Campus Catalão, ²Instituto de Física de São Carlos, ³Instituto de Química - Unesp/car

C-P40 Synthesis Andcharacterization Of Zno Nanorods Or Nanotubes On Cu Tape

Camila Rossini, Natiara Vaughn Madalossi, Talita Mazon

C-P41 Synthesis and Characterization Of K₄Nb₆O₁₇

Arnayra Sonayra Brito Silva¹, Luzia Maria Castro Honório¹, Thiago Mariano Duarte¹, Elson Longo², Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Química Unesp Araraquara

C-P42 Study Of Srmo₄:tm³⁺ Phosphor Prepared By Hydrothermal-microwave Method

Ana Paula de Azevedo Marques¹, Sidney de Medeiros Vieira Paradelas¹, Marcus Vinicius Gomes Rosseto¹, Elson Longo²; ¹Universidade Federal de São Paulo, ²Universidade Estadual Paulista Júlio de Mesquita Filho

C-P43 Magnetic Material Based On Molecule Magnets Into Mesoporous Silica

Lucas Hoffmann Greggi Kalinke¹, Danielle Cangussu de Castro Gomes¹, Patrícia Pommé Confessori Sartoratto, Francisco Lloret Pastor²; ¹Universidade Federal de Goiás, ²Universitat de València

C-P44 Synthesis and Characterization Of Multiferroic Rmn₂O₅ Systems With Mullite Perovskite Type Structure By Hydrothermal Method..

Rafael Aparecido Ferreira¹, Ronan Lebullenger², Octavio Peña², Paulo Noronha Lisboa-Filho³; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ²Université de Rennes I, ³Faculdade de Ciências - Unesp Bauru

C-P45 Synthesis and Characterization Of Compounds Ca_{0,99}Cu_{0,01}Moo₄, Sr_{0,99}Cu_{0,01}Moo₄ And Ba_{0,99}Cu_{0,01}Moo₄

Patrícia Alves de Abreu e Sousa¹, Talles André Feitosa de Carvalho¹, Francisco Xavier Nobre¹, Claudia Ferreira Silva¹, Maria Rita de Moraes Chaves Santos¹, José Milton Elias de Matos¹; ¹Universidade Federal do Piauí

C-P46 Synthesis and Photoluminescence Studies Of A New Zro₂ Based Hybrid Material

Ana Paula de Moura¹, Francine Aline Tavares², Larissa Helena de Oliveira¹, Elson Longo¹, José Arana Varela¹, Ieda Lúcia Viana Rosa²; ¹Instituto de Química de Araraquara - Unesp, ²Universidade Federal de São Carlos - Campus: São Carlos

C-P47 Influence Of The Fe(II) Dopant On The Short and Long-Range Order-Disorder Of Srsno₃

Guilherme Leocárdio Lucena¹, Ary da Silva Maia¹, Elson Longo^{2,3}, Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru, ³Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara

C-P48 Synthesis Of Zeolites From Coal Fly Ash

Luciane Venturini Lacerda¹, Felipe Amorim Berutti¹, Carlos Pérez Bergmann¹, Annelise Kopp Alves¹; ¹Universidade Federal do Rio Grande do Sul

C-P49 One-Dimensional Hexaniobate

Nanostructures Obtained By Exfoliation Method

Carolina Martins Rodrigues¹, Larissa Otubo², André Luiz Bogado¹, Rosana Maria Nascimento de Assunção¹; ¹Universidade Federal de Uberlândia, ²Nuclear and Energy Research Institute, Ipen-Usp/sp

C-P50 Anatase Phase Stabilization Through The Iron Oxide Modifying In TiO₂ Powder Samples

Natali Amarante da Cruz¹, Silvanice Aparecida Lopes dos Santos², Lincoln Carlos Silva de Oliveira², Daniela Cristina Manfro Rodrigues³, Maria Aparecida Zaghet³, Alberto Adriano Cavalheiro¹; ¹Universidade Estadual de Mato Grosso do Sul, ²Universidade Federal de Mato Grosso do Sul, ³Instituto de Química Unesp Araraquara

C-P51 Silver Doped-Sc_{0.01}Ti_{0.99}O_{1.995} Nanoparticles Obtained By Polymeric Precursor Method

Douglas Washington da Silva, Natali Amarante da Cruz¹, Daniela Cristina Manfro Rodrigues², Leinig Antonio Perazolli², Maria Aparecida Zaghet², Alberto Adriano Cavalheiro¹; ¹Universidade Estadual de Mato Grosso do Sul, ²Instituto de Química Unesp Araraquara

C-P52 Nickel Nanoparticles / Si Multilayers Produced By Pld Of Nickel Target In Ar and O₂ Background Atmospheres

Yutao Xing¹, Wallace de Castro Nunes¹, Juan Lucas Nachez¹, Dante Ferreira Franceschini¹; ¹Universidade Federal Fluminense

C-P53 Vanadium Doped-TiO₂ Powder Samples Synthesized By Polymeric Precursor Method

Maycon Santos¹, Guilherme Henrique Alves Oliveira¹, Eliane Ferreira de Souza¹, Daniela Cristina Manfro Rodrigues², Maria Aparecida Zaghet², Alberto Adriano Cavalheiro¹; ¹Universidade Estadual do Mato Grosso do Sul, ²Instituto de Química Unesp Araraquara

C-P54 Synthesis Of Core-Shell Au@SiO₂ Nanoparticles

Amanda Donatti¹, Andressa Mayumi Kubo¹, Luiz Fernando Gorup¹, Renata Lang Sala¹, Luciana da Silva Amaral¹, Edson Rodrigues Filho¹, Edson Roberto Leite, Elson Longo, Emerson Rodrigues Camargo¹; ¹Universidade Federal de São Carlos - Campus: São Carlos

C-P55 Structural and Optical Properties Of (Ag₂-2X Mg_x)W₀₄

Pablo Santana Lemos, Júlio César Sczancoski, Laécio Santos Cavalcante, Içamira Costa Nogueira, Máximo Siu Li, Elson Longo

C-P56 Synthesis Of Iron Oxide Nanoparticles Prepare By Solvothermal Method In Media Non-Aqueous

Tharsia Cristiany de Carvalho Costa, Carlos Alberto Paskocimas, José Daniel Diniz Melo

C-P57 Synthesis and Characterization Of ZnO Nanostructures: Application As Gas Sensors

Ariadne Cristina Catto¹, Luís Fernando da Silva¹, Virginie Laithier, Khalifa Aguir, Valmor Roberto Mastelaro¹; ¹Instituto de Física de São Carlos

C-P58 Synthesis and Characterization Of Yttria-Doped Barium Zirconate For Use In Fuel Cells

Kellen Cristina Mesquita Borges¹, Maysa de Melo Paranhos¹, Rosana de Fátima Gonçalves¹, Elaine Cristina Paris², Cauê Ribeiro Oliveira², Mario Junior Godinho¹; ¹Universidade Federal de Goiás - Campus Catalão, ²Embrapa Instrumentação

C-P59 Synthesis Influence On The Barium Titanate Particles.

Luane Barbara Rissi¹, Elaine Cristina Paris, Maria Alice Martins, Luiz Capparelli Mattoso; ¹Universidade Federal de São Carlos

C-P60 Synthesis Of Redox Catalysts Based On Bimetallic Au-Ag Nanoparticles Supported On SBA-15

Cauê Machado Bueno¹, Ângela Albuquerque Teixeira Neto¹; ¹Universidade Federal do ABC

C-P61 Synthesis and Characterization Of Ni-Zn Ferrite By The Complex Polymerization Method (Cpm)

Raimison Bezerra de Assis¹, Raquel Guilherme Carvalho¹, Rafaela Luiz Pereira Santos¹, Mauricio Roberto Bomio Delmonte¹, Rubens Maribondo do Nascimento¹, Carlos Alberto Paskocimas¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte

C-P62 Synthesis and Characterization Of Magnetite Nanoparticles In A Silica Shell

Marcos Vinícius Sampaio Bonfim¹, Segundo Nilo Mestanza Munoz¹, Anderson Orzari Ribeiro¹; ¹Universidade Federal do ABC

C-P63 Study Of Photoluminescent Properties Of Manganese-Doped CeO₂. Normal 0 21 False False False 1024X768 Normal 0 21 False False False

Graziela Casali¹, Tatiana Martelli Mazzo², Elson Longo³, Reginaldo Muccillo¹; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp, ²Departamento de Química - Ufscar, ³Instituto de Química - Unesp/car

C-P64 Nanostructured TiO₂/SnO₂ Composite Synthesized By Polyol Method

Joelma Cristina de Sousa Breve¹, Dayse Iara dos Santos¹; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru

C-P65 TiO₂ Nanotubes: Synthesis, Formation and Their Morphological Properties

Larisa Baldo Arruda¹, Luciana Daniele Trino², Bruna Carolina Costa, Marcelo Ornaghi Orlandi, Paulo Noronha Lisboa-Filho; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru, ²Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru

C-P66 Synthesis Of Silver Nanoparticle In A Chitosan Solution and By A Sodium Borohydrite
Nicola Carlucci Sato¹, Luis Felipe Cesar Bolognesi², Augusto Villela Loffredo, Bruno Camargo Drago, Rondinelli Donizetti Herculano, Henrique Fernandes Sericaku, Guilherme Jaques Ogawa, Luis Otavio Baggio; ¹Faculdade de Ciências e Letras. Unesp - Assis, ²Universidade Estadual Paulista Júlio de Mesquita Filho

C-P67 Physical and Electrochemical Characterization Of Thin Films Of ZrO₂ Doped With Y³⁺ and Er³⁺.

Maysa de Melo Paranhos¹, Kellen Cristina Mesquita Borges¹, Sandra de Cássia Pereira¹, Alberthmeiry Teixeira de Figueiredo¹, Leonardo Santos Andrade¹, Cauê Ribeiro Oliveira², Mario Junior Godinho¹; ¹Universidade Federal de Goiás - Campus Catalão, ²Embrapa Instrumentação

C-P68 Structural Properties Of Siloxane-Pmma Hybrid Anticorrosion Coatings Modified By Carbon Nanotubes

Samarah Vargas Harb¹, Fábio Cesar dos Santos², Bianca Machado Cerrutti³, Sandra Helena Pulcinelli, Celso Valentim Santilli, Peter Hammer⁴; ¹Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Instituto de Química de Araraquara - Unesp, ⁴Instituto de Química - Unesp/car

C-P69 Synthesis and Characterization Of Germanium Doped Tin Oxide Nanobelts
Han Pang Huang¹, Letícia Reis Gonçalves¹, Alexandre José de Castro Lanfredi¹; ¹Universidade Federal do ABC

C-P70 Synthesis and Characterization Of Phosphate Glasses Doped With Rare Earth Ions Er³⁺
Delvany de Castro Gomes¹; ¹Universidade Federal de Juiz de Fora

C-P71 Synthesis Of Coupled Nanostructures Co₃O₄ / TiO₂ By Hydrothermal Method and Evaluation Of Performance For Photocatalysis Textile Dyes
Francini Pizzinato Kataoka, Fenelon Martinho Pontes, Debora Silva Pontes, Elson Longo

C-P72 Preparation and Characterization Of In(OH)₃:eu
Fabiana Villela da Motta¹, Ana Paula de Azevedo Marques², Mara Tatiane de Souza Tavares¹, Mauricio Roberto Bomio Delmonte¹, Carlos Alberto Paskocimas¹, Rubens Maribondo do Nascimento¹, Elson Longo³; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal de São Paulo, ³Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara

C-P73 Characterization Of Alumina Nanopowder Calcined By Microwave
Silvelene Alessandra Silva¹, Maria do Carmo de A. Nono¹; ¹Instituto Nacional de Pesquisas Espaciais

C-P74 Synthesis Of Nanographene and Polythiophene In A Hybrid Thin Film: Characterization and Application
Rodrigo Villegas Salvatierra¹, Carlos Eduardo Cava², Marcela Mohallem Oliveira², Lucimara Stolz Roman¹, Aldo J.g. Zarbin¹; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná

C-P75 Synthesis Of Cobalt Ferrite (CoFe₂O₄) By The Polymerization Complex Method
Patrícia Neves de Medeiros¹, Yara Feliciano Gomes¹, Raimison Bezerra de Assis¹, Viviane da Silva Pinheiro¹, Carlos Alberto Paskocimas¹, Mauricio Roberto Bomio Delmonte¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte

C-P76 Synthesis Of Carbon Nanotubes By Thermal Cvd
Igor Yamamoto Abe¹, Diego Edison Lopez Silva², Inês Pereyra³; ¹Escola Politécnica de Universidade de São Paulo, ²Escola Politécnica da Universidade de São Paulo, ³Universidade de São Paulo

C-P77 Synthesis and Characterization Of Zirconium Oxide Doped Yttrium By Pechini and Microwave Hydrothermal Synthesis
Rafaela Luiz Pereira Santos¹, Fabiana Villela da Motta¹, Bruno Henriques², Rubens Maribondo do Nascimento¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade do Minho

C-P78 Impregnation Of ZnO Nanoparticles Under Palygorskite Ceramic Filter With Photocatalytic Properties
Eduardo Oliveira Gomes, Armando Monte Mendes, Raimison Bezerra Assis, Laura Ximena Lovisa, Luiz Carlos Bertolino, Fabiana Villela da Motta, Carlos Alberto Paskocimas, Mauricio Roberto Bomio Delmonte¹, Elson Longo²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Estadual Paulista "Júlio de Mesquita Filho"

C-P79 Synthesis Of Nanospheres
Érica Oliveira Sousa¹, Alexsandro Silvestre da Rocha, Denisia Brito Soares¹; ¹Fundação Universidade Federal do Tocantins

C-P80 Synthesis and Characterization Of A PrSnO₃ Semiconducting Oxide
Marta Maria de Moura Bezerra, Larissa Ferreira Silva, Mario Junior Godinho, Alberthmeiry Teixeira de Figueiredo, Maria Rita de Cássia Santos, Maria Fernanda do Carmo Gurgel¹; ¹Universidade Federal de Goiás

C-P81 Synthesis Of CamoO₄:eu³⁺ Phosphor By Hydrothermal Assisted-Microwave Method
Marcus Vinicius Gomes Rosseto¹, Sidney de Medeiros Vieira Paradelas¹, Ana Paula de Azevedo Marques¹, Elson Longo; ¹Universidade Federal de São Paulo

C-P82 Synthesis and Characterization Of Polypyrrol-Fe₃O₄ Nanocomposites
Ana Cláudia Araújo, Sérgio de Lemos Campello, Walter Mendes de Azevedo

C-P83 Synthesis Of Polypyrrole/ γ -Fe₂O₃, Poly(aniline/ γ -Fe₂O₃ Nanocomposites and Their Application As Anticorrosive Additives In Organic Coatings

Juan Carlos Medina Llamas, Alicia Elizabeth Chávez Guajardo, Kleber Gonçalves Bezerra Alves, Celso Pinto de Melo

C-P84 Effect Of Polivinilpirrolidone (Pvp) On Photoluminescence Properties and Morphology Of Pbmo₄ Powders

Ricardo Luis Tranquilin¹, Mauricio Roberto Bomio Delmonte², Fabiana Villela da Motta², Carlos Alberto Paskocimas², Elson Longo³; ¹Universidade Federal de São Carlos - Dq - Liec - Inctmn, ²Universidade Federal do Rio Grande do Norte, ³Instituto de Química Unesp Araraquara

C-P85 Preparation and Characterization Of Electrospun Magnetic-Fluorescent (Metal Organic Framework)/(Fe₃O₄) Bifunctional Nanofibers

Etelino Feijó de Melo^{1,2}, Leonis Lourenço da Luz², Kleber Gonçalves Bezerra Alves², Marcelo Oliveira Rodrigues³, Severino Alves Junior², Celso Pinto de Melo²; ¹Instituto Federal de Educação, Ciência e Tecnologia de Alagoas, ²Universidade Federal de Pernambuco, ³Universidade de Brasília

C-P86 Synthesis Of Cobalt Chromite Obtained By Combustion and Pechini Process

Leyliane Santos Batinga¹, Luiz Henrique Caldas¹, Érika Pinto Marinho¹, Elder Alpes Vasconcelos¹, Maria Suely Costa da Câmara², Luciano da Nóbrega Azevedo²; ¹Universidade Federal de Pernambuco, ²Universidade Federal Rural de Pernambuco

C-P87 Fast Method To Produce Nanohydroxyapatite/superhydrophilic Carbon Nanotube Composites For Bone Tissue Regeneration

Cintia Maria Rosa¹, Eduardo Saito, Evaldo José Corat², Fernanda Roberta Marciano¹, Anderson Oliveira Lobo¹; ¹Universidade do Vale do Paraíba, ²Instituto Nacional de Pesquisas Espaciais

C-P88 Fast Synthesis Of Composite Magnetic-Plasmonic Nanoparticles Mediated By The Citrus Flavonoid Hesperetin

Jelver Alexander Sierra Restrepo¹, Caio Raphael Vanoni Forciniti¹, Tânia Beatriz Creczynski-Pasa¹, André Avelino Pasa¹; ¹Universidade Federal de Santa Catarina

C-P89 Photoluminescence Properties Of Srmo₄ Powders Processed In Microwave-Hydrothermal

Vicente Sousa Marques

C-P90 Synthesis Of Zn Nanowires From The Thermal Oxidation Of Zn Nanowires Prepared By Green Process

Adriana Veloso Maciel, Vânia Duarte Pasa

C-P91 Inorganic Pigment Of Mn-Doped Al₂O₃

Thais Cardoso Valadao¹, Sergio da Silva Cava¹, Fernando Augusto Moraes¹; ¹Universidade Federal de Pelotas

C-P92 Synthesis Of Clay@zno By The Modified-Pechini Method

Adervando Sebastião Silva¹, Ana Flávia Felix Farias¹, Tiago Neves Veras¹, Herbet Bezerra Sales¹, Elson Longo², Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Faculdade de Ciências Farmacêuticas - Unesp/campus Araraquara

C-P93 The Influence Of Calcination Temperature On The Synthesis Of Knbo₃

Luzia Maria Honório¹, Arnayra Sonayra Brito Silva¹, Thiago Marianho Duarte¹, Elson Longo², Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Química Unesp Araraquara

C-P94 Synthesis, Characterization and Optical Properties Of Camoo₄ Nanocrystals Synthesized By The Microwave-Assisted Solvothermal Method

Gleice Lorena Gonçalves Tavares Botelho¹, Içamira Costa Nogueira, Elson Longo; ¹Departamento de Química - Ufscar

C-P95 Structural and Optical Study Of (Ba_{1-x}Sr_x)Moo₄ Crystals Synthesized By Co-Precipitation Method

Içamira Costa Nogueira, Laécio Santos Cavalcante¹, Pablo Santana Lemos, Paula Fabiana dos Santos Pereira, Máximo Siu Li, Elson Longo; ¹Universidade Estadual do Piauí

C-P96 Influence Of Eu³⁺ Doping In The Photocatalytic Activity Of Srsno₃

Lais Chantelle de Lima, Márcia Rejane Santos da Silva¹, Sandro Marden Torres, Ary da Silva Maia¹, Elson Longo², Antônio Gouveia Souza, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Instituto de Química de Araraquara - Unesp

C-P97 Optimization Of The Solvothermal Method In The Production Of Magnetite Nanoparticles

Fernando Barbosa de Freitas Silva¹, Elaine Cristina Paris², Cauê Ribeiro Oliveira², Geraldo Magela da Costa³; ¹Departamento de Química - Ufscar, ²Embrapa Instrumentação, ³Universidade Federal de Ouro Preto

C-P98 Magnetic Properties Of (Fe)Bi Films Prepared By Vapor Co-Deposition

Chachi Rojas Ayala^{1,2}, Elisa Baggio Saitovitch²; ¹Universidad Nacional Mayor de San Marcos, ²Centro Brasileiro de Pesquisas Físicas

C-P99 Structural Refinement and Optical Properties Of $\text{Ca}_{0.4}\text{Zn}_{0.4}\text{WO}_4$ Nanocrystals Synthesized By Hydrothermal Method

Arthur Francisco de Paiva Alcântara¹, Edinaira Deodato Nunes, Laécio Santos Cavalcante², Júlio César Sczancoski, Elson Longo, Vicente Sousa Marques; ¹Instituto Federal de Educação, Ciência e Tecnologia do Sertão Pernambucano, ²Universidade Estadual do Piauí

C-P100 Electrodeposition Of Nanohydroxyapatite Crystals On Superhydrophilic Carbon and Titanium Oxide Nanotubes

Cintia Maria Rosa¹, Eduardo Saito², Milli Aline Sant'Anna, Renato Garcia Freitas³, Ernesto Chaves Pereira de Souza³, Fernanda Roberta Marciano¹, Anderson Oliveira Lobo¹; ¹Universidade do Vale do Paraíba, ²Instituto Nacional de Pesquisas Espaciais, ³Departamento de Química - Ufscar

C-P101 Synthesis and Morphological Elcectrical Characterization Of Nano Powders Based On SnO_2 Doped With Praseodymium and Terbium.

Eduardo Conceição Araujo, Priscila Candida Duarte Gonçalves, Bruno Figueiredo Gonçalves, Pilar Hidalgo Falla, Larissa Guimarães

C-P102 Phtoluminescence Properties Of Cerium Oxide Nanoparticles As A Funtion Of Lanthanum Content

Regina Célia Deus¹, Maria Gabriela Araújo Ranieri¹, Mario Cilense¹, José Arana Varela¹, Elson Longo¹, Alexandre Z. Simões²; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho", ²Faculdade de Engenharia de Guaratinguetá - Unesp

C-P103 Microstructural Characterization Of Ni-Zn Ferrite: A Comparative Analysis Of Commercial and Synthesized Ferrite

Débora Albuquerque Vieira^{1,2}, Veronica Cristhina S. Diniz³, Ana Cristina Figueiredo de Melo Costa Costa³, Ruth Herta G. Aliaga Kiminami⁴; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba, ³Universidade Federal de Campina Grande, ⁴Universidade Federal de São Carlos - Campus: São Carlos

C-P104 Changes In Photoluminescence Properties Of CaTiO_3 Powders After Mg^{2+} Doping

Julia Savioli¹, Larissa Helena de Oliveira², Ana Paula de Moura², Içamira Costa Nogueira¹, Elson Longo², José Arana Varela², Ieda Lúcia Viana Rosa¹; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho

C-P105 Optical Properties Of $(\text{Ca}_{1-x}\text{Zn}_x)\text{WO}_4$ Microcrystals Obtained By The Microwave-Hydrothermal Method

Marcio Aurélio Pinheiro Almeida¹, Laécio Santos Cavalcante², Ederson Carlos Aguiar³, Máximo Siu Li⁴, José Arana Varela³, Elson Longo³; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho", ²Universidade Federal do Piauí, ³Universidade Estadual Paulista Júlio de Mesquita Filho, ⁴Universidade de São Paulo

C-P106 Photoluminescent Properties Of $(\text{Ca}_{0.98}\text{Cu}_{0.02})\text{TiO}_3$ Powders Prepared By Microwave Hydrothermal Method Using Different Precursors

Larissa Helena de Oliveira¹, Ana Paula de Moura¹, Máximo Siu Li², Elson Longo¹, José Arana Varela¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade de São Paulo

C-P107 Fluorescent Optical Biosensor Based On Peptide Nanotubes

Geovany Albino de Souza¹, Tatiana Duque Martins¹; ¹Universidade Federal de Goiás

C-P108 Size Determination Of Citrate-Stabilized Spherical Silver Nanoparticles In Aqueous Dispersion

Leiriana Aparecida Pinto Gontijo¹, Jefferson Luis Ferrari¹, Marco Antonio Schiavon¹; ¹Universidade Federal de São João Del Rei

C-P109 Flower-Like Nanostructures Of $\text{Fe}^0/\text{Fe}_3\text{O}_4$
Eloiza da Silva Nunes¹, Miguel Jafellicci Júnior¹; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho"

C-P110 SnO_2 Films Modified By Chromium Ions Obtained By Epd and Sintered In A Microwave Oven
Glauco Meireles Mascarenhas Morandi Lustosa, Gisane Gasparotto, Natalia Jacomaci, João Paulo Costa, José Arana Varela, Leinig Antonio Perazolli, Maria Aparecida Zaghete

C-P111 Preparation, Structural Characterization and Photocatalytic Activity Of Ag Nanoparticle-Decorated Ag_2WO_4 Crystals Prepared By The Microwave Hydrothermal Method.

Vinícius Gomes da Silva, Fenelon Martinho Pontes, Debora Silva Pontes, Elson Longo, Francini Pizzinato Kataoka

C-P112 Decolorization and Degradation Of Rhodamine B In Aqueous Solution Using MgTiO_3 Powder.

Tatiana Martelli Mazzo¹, Graziela Casali², Reginaldo Muccillo², Elson Longo³; ¹Universidade Federal de São Carlos, ²Nuclear and Energy Research Institute, Ipen-Usp/sp, ³Universidade Estadual Paulista Júlio de Mesquita Filho

C-P113 Organic Functionalization Of Graphene Assisted By Microwave Radiation

Bruno Henrique Ramos de Lima¹, Pedro Henrique Giagio¹, Edson Roberto Leite¹; ¹Universidade Federal de São Carlos

C-P114 Structural and Optical Studies Of Cobalt Doped ZnO Nanostructures

Fernanda Costa Romeiro¹, Juliane Zacour Marinho¹, Ana Paula de Moura², Elson Longo², Renata Cristina de Lima¹; ¹Universidade Federal de Uberlândia, ²Laboratório Interdisciplinar de Eletroquímica

C-P115 Luminescence Of Eu⁺³ Doping Calcium Strontium Titanate Ceramic From Microwave-Assisted Hydrothermal Method

Celso Xavier Cardoso, Carlos Eduardo Campos Lanzi¹, Agda Eunice Souza, Silvio Rainho Teixeira, Ana Maria Pires; ¹Fct-Unesp Campus de Presidente Prudente

C-P116 Zn Nanowires Grown By Thermal Oxidation

Felipe Barsanufio Pereira, Alejandro Zuniga, Felipe Barsanufio Pereira

C-P117 Study Of The Nanoparticles Formation Mechanism On The Titanate Nanotubes

Thalles Moura Fé Marques¹, Debora Aguiar Sales, Ludyane Nascimento Costa¹, Marília Evelyn Rodrigues Oliveira, Odair Pastor Ferreira, Bartolomeu Cruz Viana; ¹Universidade Federal do Piauí

C-P118 Functionalization Of Multi-Walled Carbon Nanotubes

Thaís Larissa do Amaral Montanheiro¹, João Paulo Machado², Ana Paula Lemes^{3,1}; ¹Universidade Federal de São Paulo, ²Instituto Nacional de Pesquisas Espaciais, ³Universidade Estadual de Campinas

C-P119 Photoluminescence and Morphological Behavior Of α -Ag₂WO₄ Synthesized By The Hot-Injection Approach

Júlio César Sczancoski^{1,2}, Pablo Santana Lemos¹, Elson Longo²; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara

C-P120 Influence Of Precursor Concentration In The Nanbo₃ Synthesis Using The Microwave Hydrothermal Method.

Guilhermina Ferreira Teixeira, Maria Aparecida Zaghe, Elson Longo, José Arana Varela

C-P121 Preparation and Characteristics Of Nio-Cgo Composite Anodes For Sofc

Amanda Lucena de Medeiros, Rodrigo Cesar Santiago¹, Antonio Eduardo Martinelli, Dulce Maria de Araujo Melo¹; ¹Universidade Federal do Rio Grande do Norte

C-P122 Preparation and Characterization Of Iron Doped Tin Oxide Particles Coated With Oleic Acid

Fábio Pereira da Cruz¹, Denilson Rabelo¹, Tatiane Oliveira dos Santos¹, Marcus Santos Carrião¹; ¹Universidade Federal de Goiás

C-P123 Luminescent Nanoparticles Of Silica-Coated Cdte Quantum Dots.

Luis Fernando Tonholo Domingos¹, Kayo Oliveira Vieira, Jefferson Luis Ferrari¹, Marco Antonio Schiavon¹; ¹Universidade Federal de São João Del Rei

C-P124 Nickel/pvdf Fiberssynthesized By Solution Blow Spinning Method

Tiago Cesar Gimenes¹, Lincon Zadorosny¹, Fernando Rogério de Paula¹, Robson Lourenço Cavalcante²; ¹Faculdade de Engenharia Campus de Ilha Solteira, ²Universidade Federal de Santa Catarina

C-P125 Photoluminescence Properties Of Different Zro₂ Polymorphs Obtained By Sol-Gel Method

José Miranda de Carvalho^{1,2}, Mika Lastusaari¹, Lucas Carvalho Veloso Rodrigues^{1,2}, Luiz Antônio de Oliveira Nunes³, Maria Cláudia Felinto⁴, Jorma Hölsä¹, Hermi Felinto Brito²; ¹University Of Turku / Turun Yliopisto, ²Instituto de Química, Universidade de São Paulo, ³Instituto de Física de São Carlos, ⁴Nuclear and Energy Research Institute, Ipen-Usp/sp

C-P126 Thin Film Sensors Based Czo Obtained By Chemical Method Synthesis

Marcelo Zampieri¹, Rafaela Silveira André, José Arana Varela, Elson Longo; ¹Instituto de Química Unesp Araraquara

C-P127 Mössbauer and Magnetic Characterization Of The Nanocrystalline Perovskites La_{1-x}Sr_xFeO_{3- δ} (0 $\leq$ X $\leq$ 0.5)

Rodolfo Bezerra da Silva¹, José Humberto de Araújo¹, João Maria Soares², Fernando Luis de Araújo Machado³; ¹Universidade Federal do Rio Grande do Norte, ²Universidade do Estado do Rio Grande do Norte, ³Universidade Federal de Pernambuco

C-P128 Fe Nano-Clusters Immersed In Yb Films

Chachi Rojas Ayala^{1,2}, Mathias Mraken³, Edson Passamani⁴, Elisa Baggio Saitovitch², Jochen Litterst; ¹Universidad Nacional Mayor de San Marcos, ²Centro Brasileiro de Pesquisas Físicas, ³Technische Universität Braunschweig, ⁴Universidade Federal do Espírito Santo

C-P129 Applications Of Fe₃O₄@au Nanoparticles To Improve Sensitivity and Selectivity In Dopamine Detection.

Camilo Arturo Suarez Ballesteros^{1,2}, Juliana Cancino, Valéria Spolon Marangoni, Valtencir Zucolotto; ¹Universidade de São Paulo, ²Instituto de Física de São Carlos

C-P130 Influence Of Gd Doping Amount In The Ceria-Based Ceramics To Generate Hydrogen From Ethanol

Mario Junior Godinho¹, Rosana de Fátima Gonçalves, Alberthmeiry Teixeira de Figueiredo, Humberto Vieira Fajardo, Juan José Lovón Quintana, Adriana Siviero Paganí Lovón, Gustavo Paim Valença; ¹Universidade Federal de Goiás

C-P131 Preparation Of Carbon Activated Nanostructuresfrom Biomass: Environmental Applications.

Raissa Burda Mayer¹, Willian da Maia¹, Sidnei Antonio Pianaro, Gino Capobianco¹; ¹Universidade Estadual de Ponta Grossa

PROGRAM

C-P132 Er³⁺ Doped-SrmoO₄ Synthesized By Hydrothermal-Microwave Method
Sidney de Medeiros Vieira Paradelas¹, Marcus Vinicius Gomes Rosseto, Elson Longo, Ana Paula de Azevedo Marques¹; ¹Universidade Federal de São Paulo

C-P133 Mechanical Characterization Of Modified Epoxy Resin

Rodrigo Bezerra Vasconcelos Campos^{1,2}, Bruna Araujo Castro², Adriana Anjos Silva², Bluma Guenther Soares, Sérgio Camargo²; ¹Centro Universitário Estadual da Zona Oeste, ²Universidade Federal do Rio de Janeiro

C-P134 Analysis Of The Optical Properties Of Erbium Doped Borosilicate Glass and Silver Nanoparticles

Victor Hugo de Oliveira¹; ¹Universidade Federal de Juiz de Fora

C-P135 Properties Characterization Of TeO₂ – Nb₂O₃ – V₂O₅ Semiconductor Glass

Victor Ciro Solano Reynoso¹; ¹Faculdade de Engenharia Campus de Ilha Solteira

TUESDAY, OCTOBER 01

SESSION PS2 (16:40 - 18:00)

ROOM: Poster Session

C-P136 Synthesis Of Colloidal Silica and Use Of Raft Polymerization As A Potential Method For The Preparation Of Polymer-Silica Hybrid Latexes

Anthony José Palmeira Galvão de França¹, Thaíssa de Camargo Chaparro, Gizelda Maria Alves, Amilton Martins dos Santos; ¹Universidade de São Paulo

C-P137 Carbon Deposition Under Atmospheric Helium By 2.45 Ghz Plasma With A Graphite Resonant Antenna.

Julio Flemming, Luane Bosetto, Marcos Matheus Gonçalves Pinto

C-P138 Photocatalytic and Antibacterial Activity Of Nanostructured Zno, Cuo and Zno/cuo Synthesized By A Modified Sol-Gel Method

Laís Truzzi Silva¹, Ana Adelina W. Hechenleitner¹, Daniela Martins Fernandes¹, Celso V. Nakamura¹, Marcela Fernandes Silva¹, Ângelo de Oliveira Caleare¹, Edgardo Gómez Pineda¹; ¹Universidade Estadual de Maringá

C-P139 Luminescence and Time Optimization Of Hydrothermal-Microwave Synthesis Of Catio₃:sm³⁺ Powders

Ivo Mateus Pinatti¹, Elson Longo, José Arana Varela, Ieda Lúcia Viana Rosa; ¹Universidade Federal de São Carlos - Campus: São Carlos

C-P140 Nanometric Particle Size and Phase Controlled Synthesis Of γ -Fe₂O₃ Or (α + γ)-Fe₂O₃ By A Modified Pva Sol-Gel Method

Marcela Fernandes Silva¹, Mariani Armagni Ciciliati¹, Luiz Augusto Sousa de Oliveira², Ana Adelina W. Hechenleitner¹, Edgardo Gómez Pineda¹, Daniela Martins Fernandes¹, Flavio Francisco Ivashita¹, Jose Martin Pastor³, Iñaki Perez Landazábal³; ¹Universidade Estadual de Maringá, ²Universidade Estadual de Campinas, ³Universidad Publica de Navarra

C-P141 Optical Properties and Photocatalytic Activity Of Zno and Ni-Doped Zno

Jessica de Lara Andrade¹, Michele Karoline Lima¹, Marcela Fernandes Silva¹, Ana Adelina W. Hechenleitner¹, Edgardo Alfonso G. Pineda¹, Daniela Martins Fernandes¹; ¹Universidade Estadual de Maringá

C-P142 Batio₃ Films Deposited By Electrophoresis Method With The Influence Of The Magnetic Field

João Paulo de Campos da Costa, Maria Aparecida Zaghete, Mario Cilense, Thiago Sequinel

C-P143 Influence Of Cu²⁺ Íons In The Photoluminescent Properties Of Ca_{1-x}Cu_xTio₃ Powders

Larissa Helena de Oliveira¹, Ana Paula de Moura¹, Ederson Carlos Aguiar¹, Içamira Costa Nogueira², Thiago Sequinel¹, Máximo Siu Li³, Elson Longo¹, José Arana Varela¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de São Carlos, ³Universidade de São Paulo

C-P144 Photoluminescence Properties Of Nanorods Bivo₄

Ana Paula de Moura¹, Larissa Helena de Oliveira¹, Ieda Lúcia Viana Rosa², Máximo Siu Li³, Elson Longo¹, José Arana Varela¹; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho", ²Universidade Federal de São Carlos, ³Universidade de São Paulo

C-P145 Structural and Sintering Behaviour Of Zirconia Powders Synthesized By Polymeric Precursor Method

Alejandra Hortencia Miranda González¹, Claudio Machado Junior¹, Renato Panegaci dos Santos¹, Paulo Henrique Perlatti D'alpino¹, Carlos F. O. Graeff², Elson Longo²; ¹Universidade Bandeirante de São Paulo, ²Universidade Estadual Paulista Júlio de Mesquita Filho

C-P146 Synthesis Of Rhodamine B-Labeled Castor Oil To Produce Fluorescent Polymeric Nanocapsules

Luana Almeida Fiel¹, Renata Vidor Contrí¹, Juliane Freitas Bica¹, Fabrício Figueiró¹, Ana Maria Oliveira Battastini¹, Silvia Guterres¹, Adriana Raffin Pohlmann¹; ¹Universidade Federal do Rio Grande do Sul

C-P147 Structural Characterization and Magnetic Spinel Nickel -Zinc Ferrite

Raimison Bezerra de Assis¹, Jadmylla Costa de Medeiros¹, Armando Monte Mendes¹, Mauricio Roberto Bomio Delmonte¹, Rubens Maribondo do Nascimento¹, Carlos Alberto Paskocimas¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte

C-P148 Influence Of Experimental Conditions On The Preparation Of Monodisperse Particles Of $\text{La}_{0.4}\text{Eu}_{0.3}\text{Bi}_{0.3}$ Obtained By Spray Pyrolysis Process.

Gabriela Simões Freiria¹, Carlos Roberto Matias¹, Eduardo José Nassar, Sidney José Lima Ribeiro, José Maurício Almeida Caiut, Jannette Dexpert-Ghys, Marc Verelst, Lucas Alonso Rocha¹; ¹Universidade de Franca

C-P149 Evaluation Of Photoluminescence Emission Of $\text{Ca}_{1-x-y}\text{Pr}_x\text{Er}_y\text{ZrO}_3$

Raphael Lucas Sousa Silva¹, Máximo Siu Li², Elson Longo³, Alberthmeiry Teixeira de Figueiredo¹; ¹Universidade Federal de Goiás, ²Universidade de São Paulo, ³Universidade Estadual Paulista

C-P150 Preparation, Structural and Electrical Characterization Of $\text{Sr}_{1-x}\text{La}_x\text{Tio}_3$ Thin Films Prepared By Chemical Deposition Method

Marcos Luizão Garzim¹, Gilda Hisae Mabuchi¹, Elson Longo, Adenilson José Chiquito, Paulo Sergio Pizani, Debora Silva Pontes, Fenelon Martinho Pontes¹; ¹Faculdade de Ciências - Unesp Bauru

C-P151 Preparation, Structural and Electrical Characterization Of The $\text{Pb}_{0.6}\text{Ca}_{0.4-x}\text{Li}_x\text{Tio}_3$ Thin Films Prepared By Deposition Chemical Method.

Regina Aparecida Capeli, Adenilson José Chiquito, Elson Longo, Paulo Sergio Pizani, Debora Silva Pontes, Gilda Hisae Mabuchi, Fenelon Martinho Pontes

C-P152 Research In The Thermal Analysis Of The Calcium Aluminate Matrix Obtained By Solution Combustion

Raquel Jovita dos Santos¹, Valéria Rejane Silva Brito¹, Paulo Neilson Marques dos Anjos¹; ¹Universidade Estadual de Santa Cruz

C-P153 Piezoelectric Response Of $\text{Pvdf/bazr}_x\text{Ti}_{1-x}\text{O}_3$ (X = 0.00, 0.05, 0.08, 0.10) Composites

Leilane Roberta Macario¹, Walter Katsumi Sakamoto¹, Elson Longo¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

C-P154 Development $\text{Bazr}_x\text{Ti}_{1-x}\text{O}_3$ Lead-Free Piezoelectric Materials

Leilane Roberta Macario¹, Walter Katsumi Sakamoto¹, Elson Longo¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

C-P155 Experimental Studies Of The Interface Bazo3/zns Obtained By Microwave-Assisted Solvothermal Method

Mateus Meneghetti Ferrer¹, Yuri Vinicius Santana², Cristiane Wienke Raubach¹, Amanda Fernandes Gouveia¹, Mário Lúcio Moreira³, José Arana Varela⁴, Elson Longo⁴; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista, ³Universidade Federal de Pelotas, ⁴Universidade do Estado de São Paulo

C-P156 New Antitumor Drug Delivery System Based On Magnetic Nanoparticles and Biodegradable Polymers

Larissa Durães Caminhas¹, Alinne Damasia Martins Gomes¹, Rubén Dario Sinisterra¹, María Esperanza Cortés¹; ¹Universidade Federal de Minas Gerais

C-P157 Different Dispersants Modify The Obtained Nickel Sulfide Crystalline Phase

Victor Alexandre Veit Schmachtenberg, Junior Antunes Koch, Gustavo Tontini, Guilherme Dalla Lana Semione, Valderes Drago

C-P158 Nb-Doped Tio_2 Photocatalyst Obtained By Pechini Method

Marcelo Vianna Nogueira, Maria Aparecida Zaghete, José Arana Varela, Rossano Gimenes, Leinig Antonio Perazolli

C-P159 Photo Oxidative Performance Of Tio_2 Modified With Nb^0 Bysputtering In Discoloration Of Rhodamine-B.

Marcelo Vianna Nogueira, Guilherme Francisco Pegler, Maria Aparecida Zaghete, Milady Renata Apolinário da Silva, José Arana Varela, Leinig Antonio Perazolli

C-P160 Structural and Morphological Studies Of Mesoporous $\text{ZrO}_2\text{-X\%ceO}_2\text{:ni}$ For Sofc Anodes
Rebeca Bacani¹, Tereza Silva Martins², Antonia Daniele S. Bruno Costa¹, Marcia Carvalho de Abreu Fantini¹; ¹Universidade de São Paulo, ²Universidade Federal de São Paulo

C-P161 Structural and Morphological Characterization Of $\text{Bi}_4\text{Tio}_{12}$ Powders Obtained By Microwave Assisted Hydrothermal Synthesis

Gisele Gasparotto, Ederson Carlos Aguiar, Maria Aparecida Zaghete, Rubens Nascimento, Carlos Alberto Paskocimas, Elson Longo, José Arana Varela

C-P162 Radar Absorbing Materials (Ram) Based On Thin Films Of Indium Tin Oxide (Ito)

Rafael de La Vega de Mendonça¹, Jonanthan Pierre Espíndola¹, Viviane Lilian Soethe¹, Mirabel Cerqueira Rezende², Evandro Luis Nohara³, Luis César Fontana²; ¹Universidade Federal de Santa Catarina, ²Instituto de Aeronáutica e Espaço, ³Universidade de Taubaté

C-P163 Synthesis Of Camoo₄ By Hydrothermal Assisted-Microwave Method: A Experimental Study
Marcus Vinicius Gomes Rosseto¹, Sidney de Medeiros Vieira Paradelas¹, Fabiana Villela da Motta², Elson Longo³, Ana Paula de Azevedo Marques¹; ¹Universidade Federal de São Paulo, ²Universidade Federal do Rio Grande do Norte, ³Universidade Estadual Paulista Júlio de Mesquita Filho

C-P164 Influence Of Calcination Temperature On The Synthesis Of Lamellar Niobate Dion-Jacobson - Kca₂Nb₃O₁₀

Juliana Kelly Dionízio de Souza¹, Nagib Maciel Costa¹, Antônio Gouveia Souza¹, Elson Longo², Iêda Maria Garcia Santos¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Química Unesp Araraquara

C-P165 Study Of Cyclic Stability Of 2Mg-Fe After The Process Of Cold Rolling
Camila Oliveira Cirineu, Gisele Ferreira de Lima, Maria Regina Martins Triques

C-P166 Luminescence Emission In Calcium Titanate Doped With Rare Earth Ions

Sandra de Cássia Pereira¹, Maysa de Melo Paranhos¹, Ariadne Eduardo Canedo¹, Maria A. Bezerra Santos¹, Máximo Siu Li², Elson Longo³, Fabiana Villela da Motta⁴, Alberthmeiry Teixeira de Figueiredo¹; ¹Universidade Federal de Goiás - Campus Catalão, ²Instituto de Física de São Carlos, ³Instituto de Química - Unesp/car, ⁴Universidade Federal do Rio Grande do Norte

C-P167 Effect Of Calcination Microwave Oven Of Tio₂ Nanoparticles

Mara Tatiane de Souza Tavares, Mauricio Roberto Bomio Delmonte, Carlos Alberto Paskocimas, Fabiana Villela da Motta

C-P168 Study Of The Optical Properties Of Cazro₃:eu Varying The Dopant Concentration
Marcelo de Assis¹, Elson Longo², Rafaela Silveira André¹, Mateus Meneghetti Ferrer¹, Ieda Lúcia Viana Rosa¹, José Arana Varela²; ¹Universidade Federal de São Carlos, ²Instituto de Química Unesp Araraquara

C-P169 Ion Exchange In Titanate Nanotubes With Cr³⁺ and Al³⁺ and Its Catalytic Activity

Ludyane Nascimento Costa, Thalles Moura Fé Marques¹, Ewerton Gomes Vieira, Claudia Ferreira Silva¹, Bartolomeu Cruz Viana, José Milton Elias de Matos; ¹Universidade Federal do Piauí

C-P170 Study Of Photoluminescent Properties Of Cawo₄ Synthesized By Coprecipitation Method
Ewerton Gomes Vieira, Ludyane Nascimento Costa¹, José Milton Elias de Matos, Maria Rita de Moraes Chaves Santos; ¹Universidade Federal do Piauí

C-P171 Photoluminescence Behaviour In Bismuth Titanate

Ederson Carlos Aguiar¹, Carlos Alberto Paskocimas², Rubens Maribondo do Nascimento², Elson Longo¹, José Arana Varela¹; ¹Instituto de Química - Unesp/car, ²Universidade Federal do Rio Grande do Norte

C-P172 Photo-Irradiation Effects On The Trans-Cis-Trans Isomerization Cycle In Layer-By-Layer Ppv/dyes Thin Films

Luiz Carlos Poças, Marco Aurélio Toledo da Silva, Marcella Ferraz Sawata, Lígia May Taniguchi, Maiara Mitiko Taniguchi, Edson Laureto, Ricardo Vignoto Fernandes, Bruno Rostirolla, Henrique de Santana

C-P173 Study On The Phase Formation Temperature Of α -Ag₂W₀₄

Pablo Santana Lemos, Júlio César Sczancoski, Laécio Santos Cavalcante, Içamira Costa Nogueira, Elson Longo

C-P174 Electrical Behavior Analysis Of N-Type Cacut₃Ti₄O₁₂ Thick Films

Miguel Adolfo Ponce, Miguel Angel Ramírez Gil, Federico Schipani, Ednan Joanni, Miriam Susana Castro

C-P175 Influence Of Mo In Ag₂W₀₄ and Its Photocatalysis

Mateus Gonzalez Moron, Maya Dayana Penha da Silva, Jose Ernane Cardoso Gomes, Guilherme Henrique Cruvinel¹, Elson Longo; ¹Universidade Federal de São Carlos - Campus: São Carlos

C-P176 Influence Of Zinc On The Magnetic Properties Of Ni_{1-x}Zn_xFe₂O₄ (0,25 < X < 0,75)

Raimison Bezerra de Assis¹, Mara Tatiane de Souza Tavares¹, Patrícia Neves de Medeiros¹, Mauricio Roberto Bomio Delmonte¹, Rubens Maribondo do Nascimento¹, Carlos Alberto Paskocimas¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte

C-P177 Al-Fe Nanometer Thin Film Microwave Electromagnetic Absorber.

Jonanthan Pierre Espíndola¹, Rafael de La Vega de Mendonça¹, Evandro Luis Nohara², Luis César Fontana³, Mirabel Cerqueira Rezende⁴, Viviane Lilian Soethe¹; ¹Universidade Federal de Santa Catarina, ²Universidade de Taubaté, ³Fundação Universidade do Estado de Santa Catarina, ⁴Instituto de Aeronáutica e Espaço

C-P178 Limit Of Partial Substituicion Of Ca In The Lattice Ba In Samples Of Ba_{1-x}Ca_xTio₃ Via Microwave Assisted Hydrothermal Method

Beatriz Caroline Barra¹, Agda Eunice de Souza, Silvio Rainho Teixeira, Elson Longo; ¹Fct-Unesp Campus de Presidente Prudente

C-P179 In Situ Synthesis Of TiO_2/ag Under Palygorskite Ceramic Filter For Dye Photodegradation Applications

Mauricio Roberto Bomio Delmonte¹, Eduardo Oliveira Gomes, Armando Monte Mendes, Mara Tatiane de Souza Tavares, Luiz Carlos Bertolino, Fabiana Villela da Motta, Carlos Alberto Paskocimas, Rubens Maribondo do Nascimento, Elson Longo²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Estadual Paulista Júlio de Mesquita Filho

C-P180 Structural and Magnetic Characterization Of Ferrites Thin Films Obtained By Sputtering

Paulo Henrique de Miranda Cordeiro¹, Adriana Silva de Albuquerque¹, Luis Eugenio Fernandez Outon¹, José Domingos Ardisson¹, Waldemar Augusto de Almeida Macedo¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear

C-P181 Obtaining and Characterization Of Co_2O_4 By Polymeric Precursors Method

Raimison Bezerra de Assis¹, Laura Ximena Lovisa¹, Girlene Gonçalves do Nascimento¹, Mauricio Roberto Bomio Delmonte¹, Rubens Maribondo do Nascimento¹, Carlos Alberto Paskocimas¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte

C-P182 Modified Polymeric Precursors Method For $(\text{Ce}_{0.66}\text{Zr}_{0.10}\text{Y}_{0.24}\text{O}_{2-\delta})_{1-x}(\text{ZnO})_x$ Powders Synthesis

João Henrique Assunção Vieira, Adriano Alves Rabelo, Elias Fagury Neto, Rosane Maria Pessoa Betanio Oliveira

C-P183 Synthesis and Photoluminescences Properties Of $\text{Ag}_2\text{WO}_4/\text{ag}_2\text{Moo}_4$ Particles

Jose Ernane Cardoso Gomes, Guilherme Henrique Cruvinel¹, Cristiane Wienke Raubach, Mateus Meneghetti Ferrer, Maya Dayana Penha da Silva², Mateus Gonzalez Moron, Yuri Vinicius Santana, Elson Longo; ¹Universidade Federal de São Carlos - Campus: São Carlos, ²Universidade Federal de São Carlos - Dq - Liec - Inctmn

C-P184 Comparison Of MgFe_2O_4 Obtained By Pechini Method and Combustion Process Using Urea, Citric Acid and Glycine As Fuel

Luiz Henrique Caldas¹, Leyliane Santos Batinga¹, Erika Pinto Marinho¹, Elder Alpes Vasconcelos¹, Maria Suely Costa da Câmara², Luciano da Nóbrega Azevedo²; ¹Universidade Federal de Pernambuco, ²Universidade Federal Rural de Pernambuco

C-P185 Characterization Of Improved Copper Doped CeO_2 Nanoparticle Catalyst

Daniele Cristina Ferreira¹, Renata Figueredo Martins¹, Ariete Righi¹, Mauricio Veloso Brant Pinheiro¹, Klaus Krambrock¹; ¹Universidade Federal de Minas Gerais

C-P186 Analysis Of The Chemical Composition and Magnetic Properties Of Cobalt Ferrite By The Technique Of Mössbauer Spectroscopy

Fausto Bomfim Menezes, Cesar Rogerio Menezes Silva, Fabiana Villela da Motta, Mauricio Roberto Bomio Delmonte¹, Carlos Alberto Paskocimas, Marco A. Morales; ¹Universidade Federal do Rio Grande do Norte

C-P187 Feco Nanocubes: Synthesis, Characterization and Self-Assembly

Maria Aparecida Santiago da Silva¹, Miguel Jafelicci Júnior¹, Giselle Giovanna do Couto²; ¹Instituto de Química de Araraquara - Unesp, ²Universidade Estadual de Maringá

C-P188 Influence Of Cobalt Doping On The Luminescence and Magnetic Properties Of ZnO Nanoparticles Prepared By Co-Precipitation

Henrique Jun Sugahara¹, Etelino Feijó de Melo^{2,1}, Celso Pinto de Melo¹, Kleber Gonçalves Bezerra Alves¹; ¹Universidade Federal de Pernambuco, ²Instituto Federal de Educação, Ciência e Tecnologia de Alagoas

C-P189 $\text{Ag}_2\text{W}_{1-x}\text{Mo}_x\text{O}_4$ Synthesis and Its Photoluminescence

Maya Dayana Penha da Silva¹, Mateus Gonzalez Moron, Jose Ernane Cardoso Gomes, Guilherme Henrique Cruvinel², Elson Longo³; ¹Universidade Federal de São Carlos - Dq - Liec - Inctmn, ²Universidade Federal de São Carlos - Campus: São Carlos, ³Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara

C-P190 Microwave-Assisted Hydrothermal Synthesis and Luminescence Properties Of CaIn_2O_4 :eu

Armando Monte Mendes¹, Raimison Bezerra de Assis¹, Carlos Alberto Paskocimas¹, Rubens Maribondo do Nascimento¹, Elson Longo², Fabiana Villela da Motta¹, Mauricio Roberto Bomio Delmonte¹; ¹Universidade Federal do Rio Grande do Norte, ²Instituto de Química Unesp Araraquara

C-P191 Investigation Of Photocatalytic Property Of The Ag_2Moo_4

Guilherme Henrique Cruvinel¹, Jose Ernane Cardoso Gomes, Cristiane Wienke Raubach, Yuri Vinicius Santana, Mateus Meneghetti Ferrer, Maya Dayana Penha da Silva, Mateus Gonzalez Moron, Elson Longo; ¹Universidade Federal de São Carlos - Campus: São Carlos

C-P192 Obtaining Highly Magnetic Core-Shell $\text{Fe}_3\text{O}_4/\text{ni}$ System Reduced and Stabilized By Tannic Acid

Lucyano Jefferson Alves de Macêdo¹, Welter Cantanhêde da Silva¹; ¹Universidade Federal do Piauí

C-P193 Photoluminescence Spectra Of Europium Oxide Nanostructured Films Produced By Pld Of Eu Target In O_2 Backgrounds Atmosphere

Yutao Xing¹, Juan Lucas Nachez¹, Dante Ferreira Franceschini¹; ¹Universidade Federal Fluminense

C-P194 Structural Transitions In Sr(Sn,ti)O₃ Perovskites

Andre Luiz Menezes de Oliveira¹, Márcia Rejane Santos da Silva¹, Lais Chantelle de Lima¹, Elson Longo², Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara

C-P195 Developing A Tio₂ Nanocoating By Dip Coating On Sisal Fibers For Photocatalytic Applications

Jose Heriberto Oliveira Nascimento¹, Felipe Mendonça Galvão¹, Alessandro Pinheiro Silva¹, Rita de Kássia Silva¹, Rodrigo Farias Luz¹; ¹Universidade Federal do Rio Grande do Norte

C-P196 Evaluation Of Surfactant Effect On Pva-Mwcnts Composites Properties

Michelle Sostag Meruvia, Carlos Augusto Laurindo¹, Ricardo Diego Torres¹, Guilherme Daga¹; ¹Pontifícia Universidade Católica do Paraná

C-P197 Analysis Of The Photocatalytic Effect Of Nb₂O₅ On Pesticides In Water

Érico Daniel Witzel dos Reis, Luiz Ferreira Neves Jr., Elaine Cristina Paris

C-P198 Studies On The Structural and Magnetic Properties Of Co- and Mn-Doped ZnO Nanoparticles Prepared By Mechanical Milling Process

Rafael Tomaz da Silva¹, Luiz de Melo Campos Jr.¹, Angela Ortiz de Zevallos¹, Alexandre Mesquita², Person Pereira Neves¹, Fanny Béron³, Kleber Roberto Pirota³, Antonio Carlos Doriguetto¹, Hugo Bonette de Carvalho¹; ¹Universidade Federal de Alfenas, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universidade Estadual de Campinas

C-P199 Resonance Raman Study Of Triple-Wall Carbon Nanotubes Under High Pressure: Electronic and Vibrational Properties

Rafael Silva Alencar¹, Acrisio Lins Aguiar¹, Alexandre Rocha Paschoal¹, Paulo de Tarso Cavalcante Freire¹, Yoong Ahm Kim², Hiroyuki Muramatsu², Morinobu Endo², Humberto Terrones³, Antonio Gomes Souza Filho¹; ¹Universidade Federal do Ceará, ²Shinshu University, ³Pennsylvania State University

C-P200 Attempt To Improve The Electrical Resistance Of The Grain SnO₂-Based Varistor With Additions Or Replacement For Antimony

Mario Cilense, Miguel Angel Ramírez Gil, Alexandre Z. Simões, José Arana Varela, Elson Longo

C-P201 Effects Of Different Solvents In Rifampicin Nanoprecipitation On A Microfluidic Process.

Juliana de Novais Schianti¹, Natália Neto Pereira Cerize¹, Adriano Marim Oliveira¹, Silas Derenzo¹, Mário Ricardo Góngora Rubio¹; ¹Instituto de Pesquisas Tecnológicas do Estado de São Paulo

C-P202 Supercapacitors Based On Graphene/carbon Nanotube Composite Electrodes and Ionic Liquid Electrolytes

João Paulo Campos Trigueiro¹, Rodrigo Lassarote Lavall¹, Glauro Goulart Silva¹; ¹Universidade Federal de Minas Gerais

C-P203 Effect The Temperature In The Properties Of The Ceramic Composite Al₂O₃/sicoy/nbc

Marcus Alexandre Diniz¹, Magnus Roberto Diniz Júnior²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte, ²Universidade Federal do Rio Grande do Norte

C-P204 Toxicity Of Silver Nanoparticles Stabilized By Ionic Silsesquioxane

Andressa da Cruz Schneid¹, Fernanda Sperb¹, Ursula da Silveira Matte¹, Tânia Maria Haas Costa¹, Edilson Valmir Benvenutti¹, Eliana Weber de Menezes¹; ¹Universidade Federal do Rio Grande do Sul

C-P205 Study Of Functionalization Of Sba-15 Silica With Chitosan Using Aptms As Silylating Agent Intermediary

Fernanda Alves da Silva¹, Jivaldo do Rosário Matos², Lucildes Pita Mercuri¹; ¹Universidade Federal de São Paulo, ²Universidade de São Paulo

C-P206 Skin Penetration, Irritation Potential and Cytotoxicity Of Acrylic-Based Cationic Nanocapsules

Renata Vidor Contri, Luana Almeida Fiel, Adriana Raffin Pohlmann, Monika Schäfer-Korting, Silvia Guterres

C-P207 Catalysts Based Au and Pd Bimetallic Nanoparticles Supported On Sba-15 For Reduction Of 4-Nitrophenol

Bianca Faceto¹, Ângela Albuquerque Teixeira Neto, Erico Teixeira Neto²; ¹Universidade Federal do ABC, ²Universidade de São Paulo

C-P208 Production and Characterization Of Fiber/carbon Particles Composite Aiming At Filtration On Small Devices

Ana Neilde Rodrigues da Silva^{1,2}, Maria Lúcia Pereira da Silva^{1,2}; ¹Escola Politécnica de Universidade de São Paulo, ²Faculdade de Tecnologia de São Paulo

C-P209 Properties Of Thick Electrolyte Films Obtained By Slurry Spin-Coating Technique

Milan Zunic, Mario Cilense¹, Elson Longo, José Arana Varela; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

C-P210 Gold Nanoparticles do Not Induce Cytotoxicity In Pulmonary Cell Lines

Carolina da Silva Gouveia Pedrosa¹, Talíria Silva Lopes¹, Karina Ribeiro da Silva², Leandra Santos Baptista², Priscila Falagan Lotsch¹, Luciene Bottentuit Balottin¹, Radovan Borojevic², Jose Mauro Granjeiro¹; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Universidade Federal do Rio de Janeiro

C-P211 The Activation Energies Of Diamond With Different Grain Sizes

Divani Barbosa Gavinier¹, Maurício Ribeiro Baldan¹, Vladimir Jesus Trava-Airoldi¹, Evaldo José Corat¹; ¹Instituto Nacional de Pesquisas Espaciais

C-P212 Mercuric Bromide Nanoparticles Synthesis Via Capping Agent Suspension Method

Maria Isabel Galain, Ivana Aguiar, Maria Eugenia Pérez Barthaburu, Laura Fornaro

C-P213 Carbon Nanotubes Growth By Methane Chemical Vapor Deposition On Fluidized Bed Reactor

Alexander Caytuero Villegas¹, Hugo Alvarenga Oliveira¹, Dante Ferreira Franceschini¹, Fabio Barboza Passos¹; ¹Universidade Federal Fluminense

C-P214 Incorporation Of Metals In Lamellar Silicates Magadiite And Kenyate

Marília Evelyn Oliveira¹, Thalles Moura Fé Marques¹, Edson Cavalcanti da Silva Filho, Bartolomeu Cruz Viana, José Milton Elias de Matos; ¹Universidade Federal do Piauí

C-P215 Study Of Structural and Luminescent Properties Of Cubic Zns:cd Prepared By A Microwave Solvothermal Method

Isabela de Oliveira¹, Mateus Meneghetti Ferrer, Cristiane Wienke Raubach, Yuri Vinicius Santana, Máximo Siu Li², Elson Longo³; ¹Universidade Federal de São Carlos - Campus: São Carlos, ²Universidade de São Paulo, ³Universidade Estadual Paulista

C-P216 Process Optimization Of Tpu/pani Blends To Obtain Radar Absorbing Materials By Electrospinning

Karina Ferreira de Noronha Cruz¹, Daniel Aparecido Vital¹, Livio Oliveira Miranda¹, Edson Cocchieri Botelho², Fernando Henrique Cristovan¹, Lilia Müller Guerrini¹; ¹Universidade Federal de São Paulo, ²Universidade Estadual Paulista Júlio de Mesquita Filho

C-P217 Molybdenum Trioxide: A Study Of The Synthesis Route

Claudia Ferreira Silva¹, Patricia Alves de Abreu e Sousa¹, Larissa Batista de Oliveira¹, Ludyane Nascimento Costa¹, José Milton Elias de Matos¹, Luiz de Sousa Santos Júnior¹; ¹Universidade Federal do Piauí

C-P218 Aspect Ratio Of Raw and Acid Treated Carbon Nanotubes Produced In Large Scale

Magnovaldo Carvalho Lopes, Vitor Perige Almeida Diniz, Vinicius Gomide Castro, Ingrid Beatriz Costa, Felipe Luis Queiroz, Kátia Cecília de Souza Figueiredo, Rodrigo Lassarote Lavall, Glaura Goulart Silva

C-P219 Development Of A New Superhydrophilic Vertically-Aligned Carbon Nanotubes/polymeric Nanofibers Scaffolds For Bone Tissue Regeneration

Teresa Cristina de Oliveira Marsi, João Vitor da Silva Moreira¹, Tatiane Venturott Toniato, Fernanda Roberta Marciano¹, Anderson Oliveira Lobo¹; ¹Universidade do Vale do Paraíba

C-P220 Aligned Carbon Nanotubes Filled and Decorated With Cobalt and Cobalt Oxides

Samantha Husmann¹, Aldo J.g. Zarbin¹; ¹Universidade Federal do Paraná

C-P221 Thin Films Based ZnO₄ Obtained By Chemical Method

Eric Mark Francisco^{1,2}, Marcelo Zampieri³, Elson Longo; ¹Universidade Federal de São Carlos - Dq - Liec - Inctmn, ²Departamento de Química - Ufscar, ³Instituto de Química Unesp Araraquara

C-P222 Nanocrystalline SrTi_{1-x}Fe_xO₃ Films: Ozone and Nitrogen Dioxide Sensing Properties

Luís Fernando da Silva¹, Valmor Roberto Mastelaro, Sergio C Zilio, Maria Inês Basso Bernardi, Cauê Ribeiro Oliveira, Elson Longo, Khalifa Aguir; ¹Instituto de Física de São Carlos

C-P223 Polyaniline and Silver Nanoparticles Produced Inside Mesopores Of Mcm-41 By A Direct Reaction Method

Ana Cláudia de Abreu Rosa¹, Fernanda Ferraz Camilo¹, Marcos Augusto Bizeto¹; ¹Universidade Federal de São Paulo

C-P224 Upconversion Emission From Yb³⁺/Ho³⁺ Co-Doped Y₂O₃

Caroline de Mayrinck¹, James R. Silva², Artur S. Gouveia-Neto², Luciano Avallone Bueno², Daniela Pereira Santos¹, Marco Antonio Schiavon¹, Jefferson Luis Ferrari¹; ¹Universidade Federal de São João Del Rei, ²Universidade Federal Rural de Pernambuco

C-P225 New and Tunable Hydroxylated Driving Agents For The Production Of Tailor-Made Gold Nanorods

Monique Gabriella Angelo da Silva^{1,2}, Mario Roberto Meneghetti¹, Alain Roucoux², Audrey Denicourt-Nowicki²; ¹Universidade Federal de Alagoas, ²École Nationale Supérieure de Chimie de Rennes

C-P226 Alkaline Concentration Influence On Morphology and Composition Control Of Iron Oxide Nanoparticles

Geronimo Perez¹, Maria Paulina Romero², Sonia Renaux Louro³, Ivan Guillermo Solórzano-Naranjo³; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Escuela Politécnica Nacional, ³Pontificia Universidade Católica do Rio de Janeiro

C-P227 Anbo₃ Type Perovskites (A = Ca, Sr and Ba) Obtained By The Polymeric Precursor Method

Maria de Fátima Pereira, Juliana Kelly Dionizio de Souza, Antônio Gouveia Souza, Iêda Maria Garcia Santos¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba

C-P228 Development Of Mg-Fe Mixtures With Carbon Nanotubes For Hydrogen Storage By Hot-Extrusion and Cold-Rolling

Juliana da Silva Pereira¹, Gisele Ferreira de Lima², Maria Regina Martins Triques¹, Claudio S. Kiminami¹, Walter José Botta¹, Alberto Moreira Jorge Junior¹; ¹Universidade Federal de São Carlos, ²Universidade Federal de São Paulo

C-P229 Nano and Micro Analysis Of Grains Sizes From Aluminium Alloys Coated Through Plasma Electrolytic Oxidation.

Bruno Fernando Gianelli^{1,2}, Fernando Camargo Soares, Alberto Luís Dario Moreau^{1,3}, Fabio de Lima Leite³; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Universidade Estadual Paulista "Júlio de Mesquita Filho", ³Universidade Federal de São Carlos

C-P230 Pseudo-Capacitive Behavior Of Swnt/pani Nanocomposites Obtained In A Liquid-Liquid Interface

Victor Hugo Rodrigues de Souza¹, Aldo J.g. Zarbin¹, Marcela Mohallem Oliveira²; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná

C-P231 Investigation On Thiophene Torsion Barrier Performed With Molecular Mechanics and Ab Initio Methods

Jussara Angélica Durães¹, Demétrio A. da Silva Filho¹, Artemis Marti Ceschin¹, Maria José Araujo Sales¹, João Batista Lopes Martins; ¹Universidade de Brasília

C-P232 Synthesis and Characterization Of Rn₁₀ Nanotubes

Daniel Felipe Simião¹, Alessandra Zenatti, Alexandre José de Castro Lanfredi, Márcia Tsuyama Escote; ¹Universidade Federal do ABC

C-P233 Production Of PLA Nanofibers With Simultaneous Modification By Atmospheric Plasma

Thercio Henrique de Carvalho Costa¹, Arnaldo Del Franzz Alvarez Gil¹, Ivan Alves Sousa¹, Arlindo Balbino do Nascimento Neto¹, Michelle Cequeira Feitor¹; ¹Universidade Federal do Rio Grande do Norte

C-P234 Characterization Of The Physical Properties Of Nd₁₀ Nanotubes

Alessandra Zenatti¹, Alexandre José de Castro Lanfredi¹, Daniel Felipe Simião¹, Edson Roberto Leite², Elson Longo³, Renato de Figueiredo Jardim⁴, Márcia Tsuyama Escote¹; ¹Universidade Federal do ABC, ²Universidade Federal de São Carlos - DQ - LIEC - INCTMN, ³Instituto de Química Unesp Araraquara, ⁴Instituto de Física da Universidade de São Paulo

C-P235 K₄Nb₆O₁₇ Synthesis By Hydrothermal Method

Ana Rosa Silva Neta¹, Elson Longo², Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Química Unesp Araraquara

C-P236 Influence Of Addition Of Carbon Nanotubes To PMMA For Dental Use

Daniel Pinto Martins¹, Alexandra Ramiro Camacho¹, Tayane Alves Machado¹, Alexander Eduardo Cayturo Villegas¹, Fernanda Nunes Souza¹, Hugo Alvarenga Oliveira¹, Cristina Costa de Almeida¹; ¹Universidade Federal Fluminense

C-P237 Synthesis and Characterization Of Prussian Blue Analogue Co₃[Co(CN)₆]₂ In β -Cyclodextrin Matrix

Caio Lenon Chaves Carvalho, Lucyano Jefferson Alves de Macêdo

C-P238 Characterization Of Cellulose Nanofibers Sheet Buriti (Mauritia Flexuosa L.)

Luiz Fernando Meneses Carvalho, Ecton Elliton Feitoza Almeida

C-P239 Effect Of The Heat Treatment On Photoactivity Of Oxide Nanostructures Grown On Tiw Alloy By Anodization Process

Marizilda Escudeiro Oliveira¹, Christiane de Arruda Rodrigues¹, Mariany Ludgero Maia Gomes¹, Rodnei Bertazzoli², Rita Helena Buso Jacon², Carlos Ponce Ponce de León³; ¹Universidade Federal de São Paulo, ²Universidade Estadual de Campinas, ³University Of Southampton

C-P240 Study Of The Synthesis Parameters Of K₆Nb_{10.80}O₃₀ Via Pechini Method.

Thiago Maranhão Duarte¹, Luzia Maria Castro Honório¹, Arnayra Sonayra Brito Silva¹, Elson Longo², Iêda Maria Garcia Santos¹, Antônio Gouveia Souza¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Química de Araraquara - Unesp

C-P241 Synthesis and Characterization Of ZnO@SrWO₄:Eu³⁺ Composite

Paula Fabiana Santos Pereira¹, Içamira Costa Nogueira², Ieda Lúcia Viana Rosa³, Elson Longo¹; ¹Instituto de Química Unesp Araraquara, ²Ufscar, ³Departamento de Química - Ufscar

C-P242 Microwave Hydrothermal Synthesis Of Sm:ZnO Nanoparticles

Raquel Guilherme Carvalho¹, Raimison Bezerra de Assis¹, Fabiana Villela da Motta¹, Mauricio Roberto Bomio Delmonte¹, Rubens Maribondo do Nascimento¹; ¹Universidade Federal do Rio Grande do Norte

C-P243 Graphene Oxide Studied By Scanning Probe Microscopy

Francisco Carlos Salomão, José Junior Alves, Rodrigo Queiros Almeida, Eduardo Bedê Barros

C-P244 Doped SrSnO₃ Obtained By The Polymeric Precursor Method Using Sn As Precursor

Daniely Melo Ribeiro, Pedro Freitas Carneiro, Guilherme Leocárdio Lucena, Regiane de Cássia Maritan Ugulinode Araújo, Patrícia Kaori Soares, Antônio Gouveia Souza, Elson Longo, Ary da Silva Maia, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba

C-P245 The Theoretical Analysis Of Stability and Properties Of Chiral Nanotubes [(Gaas)N]M, With Dft Methods, Pm7.

Júnio César Fonseca Silva Silva, José Divino dos Santos, João Batista Lopes Martins, Elson Longo, Carlton Antony Taft

C-P246 Influence Of The High Energy Milling Time In The Structure and Morphology Of Cnt and Al Powders: Projecting A Nanocomposite By Mechanical Alloying.

Felipe Parise Garpelli, Mercês Coelho da Silva, Renan de Figueiredo, Daniel Andrada Maria, Andreza de Sousa Andrada¹; ¹Universidade Federal de Itajubá

C-P247 Using Chitosan, Prussian Blue and Carbon Nanotubes For Biosensor Design In Modified Electrodes

Lucyano Jefferson Alves de Macêdo¹, Francisco Dhiêgo Silveira Figueirêdo¹, Amanda Raquel Ferreira Teixeira¹, Welter Cantanhêde da Silva¹; ¹Universidade Federal do Piauí

C-P248 Mechanical Exfoliation and Transference Of Graphene Flakes On Metallic Substrates

Juan Alfredo Guevara Carrió, Gabriel Domingues de Souza, Carolina Comin Tegen, Debora Cristina Neves, Waldemar Alfredo Monteiro, Mauro César Terence

C-P249 Plasma Treatment For Production Of Polymeric Nanostructures

Adriana Oliveira Delgado¹, Elidiane Cipriano Rangel², Nilson Cristino Cruz², Gustavo Berger Moura², Leopercio Lopes Navarro²; ¹Universidade Federal de São Carlos - Centro de Ciências e Tecnologia Para Sustentabilidade, ²Unesp - Campus Experimental de Sorocaba

C-P250 A Novel A-Bisabolol Oxidation Over Samarium-Containing Ceria Nanoparticles Obtained By Microwave-Assisted Hydrothermal Method

Mario Junior Godinho, Humberto Vieira Fajardo, Rosana de Fátima Gonçalves, Patricia Alejandra Dutenhefner

C-P251 Nanographite Formation Under High Pressures and Temperatures

Jackeline Barbosa Brito¹, Naira Maria Balzaretto, João Alziro Jornada, Antonio López Villanueva; ¹Universidade Federal do Rio Grande do Sul

C-P252 The Influence Of Ceramic Particles Of Zno and Al₂O₃ In The Tribological Behavior Of Lubricants

Marcos Batista Garcia¹, Humberto Naoyuki Yoshimura¹, Marcia Marie Maru², Ricardo Pedro³; ¹Universidade Federal do ABC, ²Instituto Nacional de Metrologia, Qualidade e Tecnologia, ³Centro Universitário Fundação Santo André

WEDNESDAY, OCTOBER 02**SESSION PS3 (16:40 - 18:00)****ROOM: Poster Session****C-P254 Nanogels and Nanofibers Of Polypropylene Modified By Gamma Irradiation**

Washington Luiz Oliani¹, Duclerc Fernandes Parra¹, Luis Filipe Carvalho Pedrosa Lima¹, Humberto Gracher Riella², Ademair Benévolo Lugão¹; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp, ²Universidade Federal de Santa Catarina

C-P255 Preparation and Characterization Of Mcc Functionalized With Agnps

Bruna da Silva Pereira¹, Edgardo Gómez Pineda¹, Celso V. Nakamura¹, Ângelo de Oliveira Caleare¹, Michele Karoline Lima¹, Paulo Rodrigo Stival Bittencourt², Daniela Martins Fernandes¹, Ana Adelina W. Hechenleitner¹; ¹Universidade Estadual de Maringá, ²Universidade Tecnológica Federal do Paraná

C-P256 Control Of Energy Transfer In Polymer Blends Pdhf:pdhfpvp

Luana C. Wouk¹, Flavio Franchello¹, Marco Aurélio Toledo da Silva², Edson Laureto¹, Ivan Dias¹, Jeferson Ferreira de Deus², José L. Duarte¹; ¹Universidade Estadual de Londrina, ²Universidade Tecnológica Federal do Paraná

C-P257 Effects Of Gamma Irradiation In Hydrophilic Graphene/poly(Ethylene Glycol) Composite Nanofibers.

Elton Pinto Braz¹, Patricia Lopes Barros Araujo², Elmo Silvano Araujo¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal Rural de Pernambuco

C-P258 Development Of The Base Particles Al₂O₃-Nio For Use In Thermal Spray Process Of Metal Surfaces.

Rafael Magalhães Triani¹, Sergio da Silva Cava¹, Margarete Regina Freitas Gonçalves¹, Gian Francesco dos Reis Paganotto¹, Carlos Pérez Bergmann², Igor José Cherubin¹, Bruno Silveira Noremberg¹, Edilson Nunes Pollnow¹, Tiago Guilherme Iepsen¹; ¹Universidade Federal de Pelotas, ²Universidade Federal do Rio Grande do Sul

C-P259 Natural Rubber Nanoparticles: Development and Evaluation of Stability and Size Distribution

Cintia Ramos Camargo^{1,2}, Marinônio Lopes Cornélio¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade do Estado de São Paulo

C-P260 Hydrogen Sorption Properties Of 2Mg-Fe Powder Mixture Processed By Hpt

Thaís Gorla Lemos¹, Gisele Ferreira de Lima², Maria Regina Martins Triques¹, Claudio S. Kiminami¹, Walter José Botta¹, Alberto Moreira Jorge Junior¹; ¹Universidade Federal de São Carlos - Campus: São Carlos, ²Universidade Federal de São Paulo

C-P261 Structural Changes In $\text{Ca}_x\text{Sr}_{1-x}\text{TiO}_3$

Carlos Eduardo Campos Lanzi¹, Wagner Dias Macedo Junior¹, Agda Eunice Souza, Silvio Rainho Teixeira, Elson Longo; ¹Fct-Unesp Campus de Presidente Prudente

C-P262 Phase Formation Of Colloidal Anatase TiO_2 Nanoparticles From Peroxytitanium Complex

Vagner Romito de Mendonça, Osmando Ferreira Lopes¹, Waldir Avansi Junior¹, Cauê Ribeiro Oliveira²; ¹Universidade Federal de São Carlos, ²Embrapa Instrumentação

C-P263 Nanoemulsion Production Of Diesel Using Ltcc Microfluidic Device

Juliana de Novais Schianti¹, Thais Aragão¹, Adriano Marim Oliveira¹, Mário Ricardo Góngora Rubio¹, Natália Neto Pereira Cerize¹; ¹Instituto de Pesquisas Tecnológicas do Estado de São Paulo

C-P264 Chemical Modification Of Maghemite Nanoparticles Using Laurylbenzene Sulfonate Applied In The Petroleum Industry

Luiza Alves Mendes¹, Fernando Gomes de Souza Junior¹, Gabriela Cabral Bremenkamp¹, Kamila Soares do Espírito Santo, José Eduardo dos Santos Clarindo, Geiza Esperandio Oliveira; ¹Universidade Federal do Espírito Santo

C-P265 Theoretical Simulation Protonation Of Aniline With Different Acids and Evaluation The Synthesis For Obtaining Polyaniline

Gabriel Victor Simões Dutra¹, Olacir A Araujo¹, Jose Divino dos Santos¹; ¹Universidade Estadual de Goiás

C-P266 A Density Functional Theory Study Of The Electronic and Structural Properties Of (001) Surface For Cas

Amanda Fernandes Gouveia¹, Cristiane Wienke Raubach¹, Mateus Meneghetti Ferrer¹, Yuri Vinicius Santana², José Arana Varela², Elson Longo²; ¹Universidade Federal de São Carlos - Campus: São Carlos, ²Instituto de Química - Unesp/car

C-P267 New Liquid-Liquid Interface Route To Obtain Nanocrystalline Zns

Yuri Vinicius Santana, Mateus Meneghetti Ferrer, Cristiane Wienke Raubach, Amanda Fernandes Gouveia, Elson Longo, José Arana Varela

C-P268 Nanocomposites Of Carboxylated Nitrile Rubber and Modified SiO_2 Nanoparticles

Renata Lang Sala¹, Tatiane Moraes Arantes², Emerson Rodrigues Camargo¹, Edson Roberto Leite¹, Elson Longo³; ¹Universidade Federal de São Carlos - Campus: São Carlos, ²Instituto Nacional de Pesquisas Espaciais, ³Instituto de Química de Araraquara - Unesp

C-P269 Effect Of Peg In Mn-Doped ZnO Nanostructures

Juliane Zacour Marinho¹, Fernanda Costa Romeiro¹, Ana Paula de Moura², Elson Longo², Renata Cristina de Lima¹; ¹Universidade Federal de Uberlândia, ²Laboratório Interdisciplinar de Eletroquímica

C-P270 Humidity Sensing Properties Of CuO Structures

Pâmela Wanderley Santos¹, Sonia Maria Zanetti^{1,2}, Diogo Paschoalini Volanti¹, Elson Longo¹, José Arana Varela¹; ¹Instituto de Química de Araraquara - Unesp, ²Sencer Ind. e Com. de Sensores Cerâmicos Ltda Me

C-P271 Partial Contribution In The Density Of States Of Single-Wall Silicon Carbide Nanotubes

Rogério José Costa, José Divino Santos, Carlton Anthony Taft, Elson Longo, João Batista Lopes Martins

C-P272 Hydrophobic Textiles Prepared By Organofunctionalized Silica Nanoparticles

Jaqueline Cavalheiro Rodrigues, Elisangela Muncinelli Caldas, Marco Antônio Justino, Daniel Eduardo Weibel, Tânia Maria Haas Costa, Edilson Valmir Benvenuti

C-P273 One-Pot Synthesis Of Gsh-Cdte Quantum Dots In Atmosphere Conditions

José Carlos Leandro de Sousa¹, Brenner Rodrigo Carvalho Vale¹, Calink Indiara do Livramento dos Santos¹, R. Clecio D. Muniz Filho², Jefferson Luis Ferrari¹, Marco Antonio Schiavon¹; ¹Universidade Federal de São João Del Rei, ²Universidade Federal do Piauí

C-P274 Eu^{3+} -Doped Water-Soluble Cdte Quantum Dots Prepared By One-Pot Approach

Brenner Rodrigo Carvalho Vale¹, José Carlos Leandro de Sousa¹, Jefferson Luis Ferrari¹, Marco Antonio Schiavon¹; ¹Universidade Federal de São João Del Rei

C-P275 Determination Of The Size Distribution Of Colloidal Cdte Quantum Dots By Spectroscopic Techniques

Calink Indiara do Livramento dos Santos¹, José Carlos Leandro de Sousa¹, R. Clecio D. Muniz Filho, Jefferson Luis Ferrari¹, Marco Antonio Schiavon¹; ¹Universidade Federal de São João Del Rei

C-P276 Electronic Transport In Single-Molecule
Sebastião Rodrigues Moura¹, Vicente Ferrer Pureza Aleixo¹, Gisele da Costa Ramos², Alessandro Sampaio da Silva²; ¹Universidade Federal do Pará, ²Universidade do Estado do Pará

C-P277 Influence Of Impregnation Methods and Acid Dopants On Electrical Properties Of Pani/sba-15 Composites

Tereza da Silva Martins¹, Dante Y. Takamori¹, Carla Patrícia Lacerda Rubinger², Roselena Faez³; ¹Universidade Federal de São Paulo, ²Universidade Federal de Itajubá, ³Universidade Federal de São Carlos

C-P278 Preparation and Characterization Of Nanocomposite-Based Pani and Cellulose Modified With Maleic Anhydride.

José Regilmar Teixeira da Silva, Emanuel Airton de Oliveira Farias, Edson Cavalcanti da Silva Filho, Carla Eiras

C-P279 Study Of Rutin Controlled Release In Mesoporous Silica Matrices

Juliana Camila Fischer Karnopp¹, Aline Regina Hellmann Carollo, Gustavo Rocha Castro, Marco Antônio Utrera Martines; ¹Universidade Federal de Mato Grosso do Sul

C-P280 Mechanical Compression Tests Of Multifunctional Vulcanized Natural Rubber Nanocomposites

Felipe Silva Bellucci¹, Leandra Oliveira Salmazo², Alberto Lopez Gil³, Eduardo Roque Budenberg⁴, Marcos Augusto de Lima Nobre², Miguel Angel Rodríguez-Pérez³, Aldo Eloizo Job²; ¹Ministério da Ciência, Tecnologia e Inovação, ²Fct-Unesp Campus de Presidente Prudente, ³Universidad de Valladolid, ⁴Escola de Engenharia de Lorena

C-P281 Quantum Mechanical Study In The Investigation Of The Electronic and Structural Properties Of Pure Czo

Ieda Lúcia Viana Rosa, Maria Fernanda do Carmo Gurgel, Marisa C Oliveira, Mateus Meneghetti Ferrer, Rafaela Silveira André, Marcelo de Assis, Elson Longo

C-P282 Effect Of Manganese On The Anatase TiO₂ Phase Formation

Eliane Ferreira de Souza, Maycon Santos¹, Douglas Washington da Silva², Daniela Cristina Manfroi Rodrigues³, Maria Aparecida Zaghete³, Alberto Adriano Cavalheiro²; ¹Universidade Estadual do Mato Grosso do Sul, ²Universidade Estadual de Mato Grosso do Sul, ³Instituto de Química Unesp Araraquara

C-P283 The Schottky Barrier Of Multi-Walled Carbon Nanotubes Decorated With Cadmium Sulfide Nanocrystals

Wagner Nunes Rodrigues¹, Marcos Flávio de Oliveira Silva¹, Douglas Miquita¹, Carlos Basílio Pinheiro¹, Luiz Orlando Ladeira¹, Andre S Ferlauto¹, Roberto Magalhães Paniago¹; ¹Universidade Federal de Minas Gerais

C-P284 Characterization Of Crosslinked Iron Oxide Nanoparticles By Ion Scattering Techniques

Elisa Magno Nunes Oliveira, Maximiliano Santos Rocha, Daniela Govoni Sotelo, Maurício Sortica, Ricardo Meurer Papaléo, Agenor Hentz

C-P285 Gas Sensing Properties Of Nanostructured Sm₂O₃ Microspheres

Miguel Adolfo Ponce, Rodrigo Parra, Celso Manuel Aldao, Carlos Rafael Michel

C-P286 Rocking Curves and Reciprocal Space Maps Applied In Nanostructured Devices Studies With Compact X-Ray Sources

Gaspar Darin, Sergio Luiz Morelhao

C-P287 Evaluation Of The Hydrothermal Conditions To Obtain ZnO Particles

Rafaela Silveira André¹, Flavio Sakaya Almeida, João Renato Arbex, Elaine Cristina Paris, Daniel Souza Corrêa, Luiz Henrique Capparelli Mattoso; ¹Embrapa Instrumentação

C-P288 Characterization Of Calcium Carbonates Prepared By Different Routes

Nelcy D. S. Mohallem¹, Wu Shin Wan², Matheus Emanuel Queiroz¹; ¹Universidade Federal de Minas Gerais, ²Rede Temática em Engenharia de Materiais

C-P289 Cationic Vesicles and Monolayers In Neutral Polymer Networks.

Renata Danielle Adati, Monique Lemos¹, Eloi Feitosa; ¹Instituto de Biociências Letras e Ciências Exatas

C-P290 Obtaining Pigments Nanometric and Encapsulates By The Polymeric Precursor Route

Dárcia Sâmia Santos Moura de Macêdo¹, Ovídio Cabral Macedo Neto²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte, ²Universidade Federal do Rio Grande do Norte

C-P291 Cationic Lipid-Nonionic Triblock Copolymer Complexes Studied By Calorimetric and Light Scattering Methods.

Monique Lemos, Renata Danielle Adati, Eloi Feitosa

C-P292 Clays Used For The Production Of Structural Ceramics Of The Cariri-Ce Metropolitan Region

Rosa Medeiros Marinho¹, Geraldo Almiro Araujo Neto¹, Maria Bandeira Barroso², Severino Jackson Guedes³, Antônio Gouveia Souza³, Márcia Rejane Santos da Silva³, Iêda Maria Garcia Santos³; ¹Universidade Regional do Cariri, ²Universidade Federal do Ceará, ³Universidade Federal da Paraíba

C-P293 Effect Of Laser Parameters On Fabrication Of Structures For Microfluidic Devices By Laser Ablation

Shawan de Campos Almeida, Larissa Segato, Cristiano Monteiro de Barros Cordeiro, René Alfonso Nome

C-P294 Correlation Of Roughness and Film Thickness From Coated Aluminium Alloys Through Plasma Electrolytic Oxidation.

Bruno Fernando Gianelli^{1,2}, Fernando Camargo Soares¹, Daniele Maria Bruno Falcone¹, Sabrina Moretto Darbello Prestes²; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Universidade Estadual Paulista "Júlio de Mesquita Filho"

C-P295 Saturation Point Of Surface Coating From Aluminium Alloys Through Plasma Electrolytic Oxidation.

Bruno Fernando Gianelli¹, Fernando Camargo Soares¹, Fábio de Oliveira Carvalho¹, Wladimir Reginaldo de Oliveira¹; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo

C-P296 Fe-Doped Titanate Nanosheets Produced In A Single Step Synthesis

Antonio Mario Leal Martins Costa¹, Bojan Marinkovic¹, Sidnei Paciornik¹; ¹Pontifícia Universidade Católica do Rio de Janeiro

C-P297 Influence Of Discharge Barrier Dielectric On The Ageing Behavior Of Plasma-Treated Polylactic Acid

Michelle Cequeira Feitor¹, Viviane Queiroz Carneiro¹, Thiago Felix dos Santos¹, Luciani Paola Rocha Cruz¹, Rubens Capistrano Araújo¹, Ivan Souza¹, Arnaldo Del Franz Alvarez Gil¹, Clodomiro Alves Junior², Thercio Henrique de Carvalho Costa¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal do Semi-Árido

C-P298 Innovative Low Temperature Plasma Approach For Deposition Of Alumina Films

Elidiane Cipriano Rangel¹, Felipe Darriba Battaglin¹, Ricardo H Hosokawa¹, Luciano Caseli², Nilson Cristino Cruz¹; ¹Unesp - Campus Experimental de Sorocaba, ²Universidade Federal de São Paulo

C-P299 Investigation Of Proton Exchange On Tio₂-Based Nanotubes and Nanoribbons

Ariete Righi¹, Fábio Lacerda Resende e Silva¹, Renata Figueredo Martins¹, Frederico Dias Brandão¹, Klaus Wilhelm Heinrich Krambrock¹; ¹Universidade Federal de Minas Gerais

C-P300 ZnO Nanostructures For Application As Gas Sensor

Gisane Gasparotto, Talita Mazon, Gisele Gasparotto, Maria Aparecida Zaghete, Leinig Antonio Perazolli, José Arana Varela

C-P301 Synthesis and Characterization Of Polypyrrole-Zno Nanocomposites For Anticorrosive Applications

Demétrius Perrelli Valença¹, Nadège Bouchonneau da Silva¹, Juan Carlos Medina Llamas¹, Kleber Gonçalves Bezerra Alves, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco

C-P302 Effect Of The Concentration Of H₂O₂ In The Chemical Synthesis Of Tio₂ Antase Powder

Maykon André Montanhera¹, Éder Alves Pereira¹, Edna Regina Spada², Renato Garcia Freitas³, Fernando Rogério de Paula⁴; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto de Física de São Carlos - Usp, ³Universidade Federal de São Carlos, ⁴Faculdade de Engenharia Campus de Ilha Solteira

C-P303 Study Of Optical Properties Of Borosilicate Glass Doped With Yterbio A Function Of Concentration

Filippe Carvalho Bernardino¹, Sidney Alves Lourenço¹; ¹Universidade Tecnológica Federal do Paraná

C-P304 Nanofibers Of Polyvynil Alcohol and Polyaniline/silver Composites Produced By Electrospinning

José Jarib Alcaraz Espinoza¹, Celso Pinto de Melo, Cesar Andrade; ¹Universidade Federal de Pernambuco

C-P305 Preparation and Characterization Of Phase-Pure Anatase And Rutile Tio₂ Powder By Chemistry Route

Éder Alves Pereira¹, Maykon André Montanhera¹, Edna Regina Spada², Renato Garcia Freitas³, Fernando Rogério de Paula⁴; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade de São Paulo, ³Universidade Federal de São Carlos, ⁴Faculdade de Engenharia Campus de Ilha Solteira

C-P306 Tisno₂ Single-Phase By Polymeric Precursor Method

Marta Maria de Moura Bezerra¹, Larissa Ferreira Silva, Maria Rita de Cássia Santos, Mario Junior Godinho; ¹Universidade Federal de Goiás

C-P307 Study Of Adsorptionin Zro₂ Nanoparticles Synthesized By Hydrothermal Route

David Santos Souza Padovini¹, Elson Longo², Debora Silva Pontes³, Fenelon Martinho Pontes¹, Edson Roberto Leite³, Cleocir José Dalmaschio⁴, Francini Pizzinato Kataoka¹; ¹Faculdade de Ciências - Unesp Bauru, ²Instituto de Química Unesp Araraquara, ³Universidade Federal de São Carlos, ⁴Universidade Federal de São Carlos - Campus: São Carlos

C-P308 Co₂/zno Adsorption Mechanism

Diego Elias Honda¹, João Batista Lopes Martins¹; ¹Universidade de Brasília

C-P309 Nanoemulsion Production Of Diesel Using High-Shear Homogenization and Ultrasonic Process

Thais Aragão¹, Natália Neto Pereira Cerize¹, Adriano Marim Oliveira¹; ¹Instituto de Pesquisas Tecnológicas do Estado de São Paulo

C-P310 Conformations and dos In Theoretical Studies Of Boron Nitride Nanotubes

Rogério José Costa, José Divino Santos, Carlton Anthony Taft, Elson Longo, João Batista Lopes Martins

C-P311 Growth Of Ordered Co₂Feal Thin Film Heusler Alloys By Co-Sputtering

Márcia Saturnino Santos, Raphael Evandro Araujo, Luis Eugenio Fernandez Outon, José Domingos Ardisson, Waldemar Augusto de Almeida Macedo

C-P312 Gadolinium Oxide Nanorods Prepared By Thermal Dehydration Gadolinium Hydroxide Synthesized For Microwave - Hydrothermal Method.

Maciel Almeida Salomão¹, Mario Junior Godinho¹, Maria A. Bezerra Santos¹, Alberthmeiry Figueiredo¹; ¹Universidade Federal de Goiás - Campus Catalão

C-P313 Sensitivity Control In Pvb-Protected Molecular Dosimeterproduced By Two-Step Process

Diana Raquel Siqueira da Silva¹, Patrícia Coimbra da Nóbrega¹, Dogival Antônio da Hora Lira¹, Petrus D'amorim Santa Cruz¹; ¹Universidade Federal de Pernambuco

C-P314 Effect Of The Nickel Deposited Onto Photonic Crystal Made Of Porous Silicon

Danilo Roque Huanca¹, Walter Jaimes Salcedo¹; ¹Escola Politécnica da Universidade de São Paulo

C-P315 Process Optimization Of Starch/pectin Blends For Hydroxyapatite Nanoparticles Coating

Camila Rodrigues Sciena, Maria Fernanda Santos, José Manoel Marconcini, Cauê Ribeiro Oliveira, Elaine Cristina Paris, Daniel Souza Corrêa

SYMPOSIUM D

Materials and Devices for Renewable Energy, Sustainability and Environmental Protection

ORAL SESSIONS

* Invited Lecture

MONDAY, SEPTEMBER 30

SESSION OS1-3 (09:30 - 10:30) ROOM: 3

09:30 D-O1*

Exciton Diffusion and Morphology Of Polymer:fullerene Solar Cells

Ifor David William Samuel, Gordon J. Hedley, Alexander J. Ward, Alexander Alexeev, Arvydas Ruseckas, Calvyn T. Howells

10:10 D-O2

R2R Production Of Organic Photovoltaic Modules

Peter Andrew Levermore¹, Vinicius R Zanchin¹, Sergio Lopera¹, Grzegorz A Potoczny¹, Stephane Suarez¹, Xiujin Wang¹, Erika Gyoervary², James R Buntaine¹; ¹Centro de Inovações Csem Brasil, ²Centre Suisse D'electronique Et de Microtechnique

SESSION OS2-3 (10:50 - 12:30) ROOM: 3

10:50 D-O3

Use Of Monocrystalline Silicon Obtained By Czochralski From Upgraded Metallurgical Grade Silicon For Solar Cell

Rafael Merlo¹, Andresa D Cortes¹, Douglas Soares da Silva¹, Gustavo Alexandre Viana¹, Edison Fernandes Motta¹, Paulo Roberto Mei¹, Francisco Das Chagas Marques¹; ¹Universidade Estadual de Campinas

11:10 D-O4

Evaluation and Design Of New Chromophores For Dye-Sensitized Solar Cells (DSSC)

Jorge Stephan Gancheff¹, Pablo Andrés Denis¹, María Fernanda Cerdá¹, Gonzalo Carrau¹, Paula Enciso¹; ¹Universidad de La Republica

11:30 D-O5

Introducing The Amorphous Carbon Films As An Environmentally-Friendly Alternative Material For Antireflective Coating On Silicon Solar Cells

Douglas Soares da Silva¹, Gustavo Alexandre Viana¹, Andresa Deoclídea Soares Côrtes¹, Edson Fernandes Motta¹, Francisco Das Chagas Marques¹; ¹Universidade Estadual de Campinas

11:50 D-O6

Confinement Effects On Titanium Oxide Nanostructures

Leonardo Matheus Marion Jorge¹, Marcelo Alves dos Santos, Daniele Varsano², Marília J. Caldas¹; ¹Universidade de São Paulo, ²Università Degli Studi Di Roma La Sapienza

12:10 D-O7

Paper Solar Cells With ZnO Oriented Nanostructures

Saionara Vilhegas Costa^{1,2}, João Eduardo Benedetti¹, Agnaldo Sousa Gonçalves, Talita Mazon², Ana Flávia Nogueira¹; ¹Universidade Estadual de Campinas, ²Centro de Tecnologia da Informação Renato Archer

SESSION OS3-3 (15:00 - 16:20) ROOM: 3

15:00 D-O8*

Spectroscopic Ellipsometry Studies Of Thin Film Solar Cell Layers

Andre S Ferlauto^{1,2}; ¹Universidade Federal de Minas Gerais, ²University Of Toledo

15:40 D-O9

Adsorption Capacity Of Graphene Oxide: The Role Of Oxidative Debris

Vitor Rafael Coluci¹, Diego Stefani¹, Jaqueline G. Honório¹, Andréia F. de Faria¹, Daniel Alexandre Morales¹, Gisela Aragão Umbuzeiro¹, Oswaldo Luiz Alves¹; ¹Universidade Estadual de Campinas

PROGRAM

16:00 D-O10*

Recent Advances On Solar Water Splitting Using Vertically Aligned Hematite Nanorod Films
Flavio Leandro Souza¹; ¹Universidade Federal do ABC

SESSION OS4-3 (16:40 - 18:00)
ROOM: 3

16:40 D-O11

Evaluation Of Biodiesel and Diesel-Biodiesel Blends Characteristics By The Electrical Viewpoint

Diany Lucy Silveira dos Reis¹, Jean Claude M'peko², Anderson Rodrigues Lima Caires¹, José Ezequiel de Souza¹; ¹Fundação Universidade Federal da Grande Dourados, ²Universidade de São Paulo

17:00 D-O12

Magnesium-Based Nanomaterials For Hydrogen Storage: Design and Critical Evaluation Of Spd Processing Routes

Daniel Rodrigo Leiva¹, Ricardo Floriano¹, Alexandre Augusto Cesario Asselli², Jacques Huot², Tomaz Toshimi Ishikawa¹, Walter José Botta¹; ¹Universidade Federal de São Carlos, ²Université Du Quebec Trois-Rivieres

17:20 D-O13

Second Glass Transition Temperature In Perfluorosulfonated Ionomers Membranes

Bruno Ribeiro Matos¹, Ivan Alejandro Velasco-Davalos², Andreas Ruediger², Ana C. Tavares², Fabio Coral Fonseca¹; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp, ²Institut National de La Recherche Scientifique

17:40 D-O14

Solid Electrolytes Based On Ionic Liquids and A Polyether-Block-Polyamide Copolymer

Fernanda Ferraz Camilo¹, Larissa Verena Figueiredo Oliveira¹, Roselaine Silva Oliveira¹, Roselena Faez²; ¹Universidade Federal de São Paulo, ²Universidade Federal de São Carlos

TUESDAY, OCTOBER 01

SESSION OS5-3 (09:30 - 10:30)
ROOM: 3

09:30 D-O15*

Synthesis and Characterization Of Oxides For Symmetrical and Intermediate Temperature Soft

Adriana Cristina Serquis¹, F. Napolitano¹, Analía Leticia Soldati¹, A. Fernandez Zulvich², D. C. Lamas³, Laura Baqué³, J. Geck⁴, H. Troiani¹, C. González Oliver A. Carneiro¹; ¹Comisión Nacional de Investigaciones Científicas Y Técnicas, ²Anpcyt-Cnea, ³Universidad Nacional Del Comahue, ⁴Leibniz Institute For Sol Stat and Material Research Ifw

10:10 D-O16*

Glass Ceramic Seal For Electrochemical Devices
Signo T. Reis¹, Matthieu Schwartz; ¹Saint-Gobain

SESSION OS6-3 (10:50 - 12:30)
ROOM: 3

10:50 D-O17*

Thermal Energy Conversion Using Magnetic Materials: historical Perspective and Recent Advances

Sergio Gama, Lucas Diego Rodrigues Ferreira¹, Carlos Vinicius Xavier Bessa¹, Isaías da Silva¹; ¹Universidade Federal de São Paulo

11:30 D-O18

Structural and Magnetic Study Of The Stability Of Fen Phases Prepared By Nitrogen Implantation In Fe Thin Films

Louis Charler Garnier¹, Mahmoud Eddrief¹, Victor Hugo Etgens², Dominique Ledu³, Franck Fortuna³; ¹Institut Des Nanosciences de Paris, ²Université de Versailles Saint Quentin En Yvelines, ³Centre de Spectrométrie Nucléaire Et de Spectrométrie de Masse

11:50 D-O19

Magnetic Nanocomposites Based On Polycaprolactone For Oil Removal Applications
Eldho Elias¹, Fernando Gomes de Souza Junior¹, Sabu Thomas²; ¹Universidade Federal do Rio de Janeiro, ²Mahatma Gandhi University

POSTER SESSION

TUESDAY, OCTOBER 01

SESSION PS2 (16:40 - 18:00)
ROOM: Poster Session

D-P1 Life Cycle Assessment Of Portland Cement and Geopolymer Concretes

Thuany Marra de Figueiredo Lourenço¹, Ana Flávia Souza Foureaux¹, Paulo H R Borges; ¹Centro Federal de Educação Tecnológica de Minas Gerais

D-P2 Improving The Environmental Impact Of Geopolymer Mortars

Thuany Marra de Figueiredo Lourenço, Ana Flávia Souza Foureaux¹, Paulo H R Borges; ¹Centro Federal de Educação Tecnológica de Minas Gerais

D-P3 Enabling Wastes Of Glass For The Production Of Ceramic Bricks

Alvaro Cesar Galvao, Renata Ferreira Sousa, Elione Carlos Moura, Jose Ubiragi Lima Mendes, Luis Guilherme Meira de Souza

D-P4 Mechanical and Electrical Properties Of Composites Oxygen Ion Conductors, (Y-Tzp)_{1-x}(Bicuvax)_x

Roger Honorato Piva¹, Diógenes Honorato Piva², Márcio Raymundo Morelli¹; ¹Universidade Federal de São Carlos, ²Universidade Federal do Rio Grande do Sul

D-P5 Study Of The Recovery and Recycling Of Tailings From The Concentration Of Iron Ore For The Production Of Ceramic Aiming At Sustainability
Fabiane Leocádia Silva, Fernando Gabriel Araújo, Fernando Leopoldo Kruger, Ana Paula Silva, Rodrigo Claudiano Gomes

D-P6 Modeling and Simulation Of Oxygen Reduction Reaction Mechanism At Solid Oxide Fuel Cell Cathode

Marina Oliveira Curi^{1,2}, Argimiro Resende Secchi¹, José Geraldo de Melo Furtado², Evaristo Chalbaud Biscaia Jr.¹, Helen Conceição Ferraz¹; ¹Universidade Federal do Rio de Janeiro, ²Centro de Pesquisas de Energia Elétrica

D-P7 Electrodeposited Composite Coatings On High-Cr Ferritic Stainless Steels For Solid Oxide Fuel Cell Interconnects

Ananda Moreira Vaz Ourique de Avila¹, Fernanda Cendon Ferreira¹, Marina Oliveira Curi¹, Rodrigo Dias, José Geraldo de Melo Furtado¹; ¹Centro de Pesquisas de Energia Elétrica

D-P8 Influence Of Theelectrosynthesis Parameters On The Photocatalytic Properties Of TiO₂ Films

Rafael Bento Serpa¹, Maria Luisa Sartorelli¹, Françoise Toledo Reis¹; ¹Universidade Federal de Santa Catarina

D-P9 Study Of The Electrocatalytic Activity Of Pt Nanoparticles Dispersed On Moo₃-C For The Oxygen Reduction Reaction.

Pedro Farinazzo Bergamo Dias Martins¹, Edson Antonio Ticianelli¹; ¹Universidade de São Paulo

D-P10 Mechanical Properties Of The Pp Composites Reinforcedwith Palm Fibers

Lais Sousa Reis, Wagner Martins Florentino, Ana Carolina Callegario Pereira, Daniella Regina Mulinari

D-P11 Solar Absorbtion Coatings With A Polymer Base

Jamuarê Almeida Strauss¹, Flavio Horowitz; ¹Universidade Federal do Rio Grande do Sul

D-P12 Life Cycle Assessment Of Iron-Niobium

Adilson Rangel Alves^{1,2}, Aparecido R Coutinho²; ¹Centro Federal de Educação Tecnológica de Minas Gerais, ²Universidade Metodista de Piracicaba

D-P13 Analysis Of The Degradation Process The Recycled Pet Obtained By Thermal Compression

Fernanda Guerra Lima Medeiros Borsagli, André Guimarães Ferreira, Joel Romano Brandão

D-P14 Evaluation Of Conductivity and Mechanical Properties Of Neutralized Chitosan Films

Jaiber Humberto Rodríguez Llanos¹, Luci Cristina de Oliveira Vercik, Andrés Vercik; ¹Universidade de São Paulo

D-P15 Influence Of Mass Fraction Of Polymer Composites Reinforced With Natural Fibers

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D-P16 Layered Mos₂ Grown On Graphene For Electrochemical Supercapacitor Aplications

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D-P17 Composites Using Cotton Scrap Yarns and Resin: Analternative For Textile Recycling, Fashion and Design

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D-P18 Byproduct Of The Kraft Pulping As A Preservative For Wood Of Fast Growing

Kelly Bossardi, Ricardo Marques Barreiros

D-P19 Mechanical Characterization Of Biocomposites Based On Plasticized Starch Reinforced With Curauá Fibers Developed By Hot Compression

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D-P20 Sr₂CeO₄: Photoluminescent, Electronic and Structural Properties For Potential Application In Solar Cells

Leonardo Alves Rocha¹, Marco Antonio Schiavon, Marcio Sousa Góes, Clebio Soares Nascimento Jr., Luciana Guimaraes¹, Jefferson Luis Ferrari; ¹Universidade Federal de São João Del Rei

D-P21 Structural, Morphological and Electrochemical Study Of La_{0.55}Li_{0.35}TiO₃ Prepared By The Polymeric Precursor Method

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D-P22 Evaluation Of Accelerated Aging In Oxo-Biodegradable Eps Using Yellowness Index

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D-P23 Chemical Modification Of K-10 Clay By Adsorption Of Organic Pollutantsorganic Pollutants

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D-P24 Theoretical Prediction Of Open-Circuit Voltage In Polymer-Fullerenes Bulk-Heterojunction Solar Cells.

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D-P25 Application Of A New Nb₂O₅/tio₂ Thin Film As Blocking Layer In Dye-Sensitized Solar Cells

Leonardo Ferreira Paula¹, Antonio Otavio Toledo Patrocinio¹, Antônio Eduardo Hora Machado¹, Neyde Yukie Murakami Iha², Roberto Magalhães Paniago³; ¹Universidade Federal de Uberlândia, ²Universidade de São Paulo, ³Universidade Federal de Minas Gerais

D-P26 Incorporation Of Au Nps In Multilayers Of Polyelectrolytes Supported Of Bacterial Cellulose For H₂ Production

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D-P27 Obtaining A Photovoltaic Solar Cell Based On Cds and Tio₂ Photosensitized With A Dye

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D-P28 Structural Behavior and Effective Conjugation Length Variation In Processing Of P3HT's Thin Films.

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D-P29 Manufacture and Surface Roughness Assessment Of composite Wind Blades

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D-P30 High Temperature Oxidation and Friction Wear Behavior Of Hvof Sprayed Nicocralyta Coating On Aisi 316L

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D-P31 Tuning Structural Changes In Glucose Oxidase For Energy Applications

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D-P32 Ammonium Free Self-Assembly Deposition Of Cds Luminescent Quantum Dots On Flexible-Transparent Substrate

Adriano Cesar Rabelo, Marco Aurélio Toledo da Silva¹, Augusto Alcade Milla, Roberto Matos², Marcelo de Assunção Pereira da Silva, Roberto Mendonça Faria, Raigna Augusta da Silva Zadra Armond, Alexandre Marletta, Otávio L. Bottecchia; ¹Universidade Tecnológica Federal do Paraná, ²Universidade Federal de São Carlos - Campus: São Carlos

D-P33 The Magnetocaloric Effect On Er_{1-x}Tb_xAl₂ Compounds

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D-P34 Development Of Adherent, Super Hydrophilic and Photocatalytic Tio₂-Based Nanocoatings From A Low-Cost Precursor

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D-P35 Comparative Testing Of Polymeric Matrix Composite Material Reinforced With Residuals From The Timber Industry

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D-P36 Tio₂ Nanotubes Sensitized With Cds Quantum Dots By In Situ Hydrothermal Technique For Photocatalytic Application

Johan Rene Gonzalez^{1,2}, Edwin R. C. Milet², Jefferson Luiz Princival¹, Giovanna Machado²; ¹Universidade Federal de Pernambuco, ²Centro de Tecnologia Estrategica do Nordeste

D-P37 Spin Reorientation Transitions In (Ho,gd)Al₂ Solid Solutions

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D-P38 Synthesis, Characterization and Determination Of The Energy Band Gap Of Tio₂ Nanofibers Obtained By Electrospinning

Luana Góes Soares¹, Carlos Pérez Bergmann¹, Annelise Kopp Alves¹; ¹Universidade Federal do Rio Grande do Sul

D-P39 Guanidine-Functionalized Core-Shell Fe₃O₄@sio₂ Nanoparticles As Basic Catalysts For Biodiesel Production

Evelyn Christyan da Silva Santos¹, José Roberto Dias Dantas, Célia Machado Ronconi¹; ¹Universidade Federal Fluminense

D-P40 Characterization Of Solid Waste and Use In Ceramic Industry

Sergio Biff, Manoel Ribeiro da Silva¹, Gilbert Silva¹; ¹Universidade Federal de Itajubá

D-P41 The Effects Of Microwave-Assisted Hydrothermal Treatment On Nio-Ysz-Ceo₂ Composite

Lucas Batochi Pinheiro¹, Antonio Eduardo Martinelli², Fabio Coral Fonseca¹; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp, ²Universidade Federal do Rio Grande do Norte

D-P42 Dye-Sensitized Tio₂ Based Solar Cells Fabricated With Anthocyanin From Vitrus Labrusca Grapes

Rodrigo Szostak¹, Eder Carlos Ferreira de Souza¹, Augusto Celso Antunes¹; ¹Universidade Estadual de Ponta Grossa

D-P43 Proof Of The Mechanical Properties Of Concrete Using Fly Ash From Foundry

Carine Cardoso dos Santos¹, Luiz Veriano Dalla Valentina¹; ¹Fundação Universidade do Estado de Santa Catarina

D-P44 Direct Ethanol Solid Oxide Fuel Cell With Nickel and Cobalt Based Anode – Nahco₃ Effect

Marcos Aurélio da Silva^{1,2}, Raigenis da Paz Fiuza¹, Jaime Soares Boaventura¹, Luiz Magalhães Pontes¹; ¹Universidade Federal da Bahia, ²Instituto Federal de Educação, Ciência e Tecnologia Baiano

D-P45 Characterization Of Hybrid Composite Reinforced By Curaua Fibers and Wood Waste

César Tadeu Nasser Medeiros Branco¹, Lírian Said de Lima, Wassim Raja El Banna, Deibson Silva da Costa, Nádia Silva Cosmo, Carlindo Lins Pereira Filho, Roberto Tetsuo Fujiyama; ¹Universidade Federal do Pará

D-P46 Low Heating Rate Sol-Gel Synthesis Of Titania Nanoparticles Applied As Solar Cells Photoanode

Luciana Daniele Trino¹, Bruna Carolina Costa¹, Larisa Baldo Arruda¹, Paulo Noronha Lisboa-Filho²; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ²Departamento de Física - Faculdade de Ciências - Unesp/bauru

D-P47 Photocatalytic Systems For Hydrogen Production From Tio₂ Nanoparticles Sensitized By Organic Dyes

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D-P48 A Comparison Between Hand Lay-Up and Resin Infusion Techniques For Manufacturing Polymer Composite Laminates

Kwai Nan Te¹, Fabio Edson Mariani¹, Ricardo Klaus Kramer¹, Jose Ricardo Tarpani¹; ¹Universidade de São Paulo

D-P49 Synthesis and Characterization Niobium-Doped Bismuth Titanate Selenite For Photocatalysis

Andre Esteves¹, Emerson Rodrigues Camargo¹; ¹Universidade Federal de São Carlos - Campus: São Carlos

D-P50 Synthesis and Characterization Of Gd₂O₃ Through Polyethyleneglycol For Possible Application As Scintillator

Lorena Pereira Baêta Durante¹, Leonardo Alves Rocha¹, Fernando Otavio Coelho¹, Marco Antonio Schiavon¹, Jefferson Luis Ferrari¹; ¹Universidade Federal de São João Del Rei

D-P51 Chemistry and Mineralogical Analysis Of Autoclaved Matrix Produced With Lime and Rice Husk Ash.

Stefan Chaves Figueiredo¹, Conrado Souza Rodrigues¹, Mariana Arruda Pereira²; ¹Centro Federal de Educação Tecnológica de Minas Gerais, ²Universidade Federal de São João Del Rei

D-P52 A Simple Model For Solubility Of Fullerenes Derivatives

Rodrigo Marques Ferreira¹, Francisco Carlos Lavarda²; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ²Departamento de Física - Faculdade de Ciências - Unesp/bauru

D-P53 Lewis Base Modified Mesoporous Silica As Adsorbent For Cu(II) Ions From Aqueous Samples

Alexandre de Oliveira Jorgetto¹, Rafael Innocenti Vieira da Silva¹, Margarida Juri Saeki¹, Marco Antônio Utrera Martines², Gustavo Rocha Castro¹; ¹Ibb-Unesp, ²Universidade Federal de Mato Grosso do Sul

D-P54 Study Of Wettability Between The Red Ceramic and Glaze Coming From Dimension Stones

Simone Pereira Taguchi Borges¹, Natali Altoé da Cunha¹, Jamili Altoé da Cunha¹, Marília Silva Rodrigues¹; ¹Universidade Federal do Espírito Santo

D-P55 Analysis Micro-Structural Of Mortar For Reinforcement With Addition Of Biomass Of Cane Sugar Ash

Edilberto Vitorino Borja¹, Manoel Dias da Cunha Junior¹, Valtencir Lúcio de Lima Gomes¹, Marcio Luis Varela Nogueira de Moraes¹, Marcos Alyssandro Soares dos Anjos¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte

D-P56 The Use Of Waste Foundry Sand (Wfs) In The Production Of Concrete For Parts Manufacturing Floor Interlocked (Paver)

Fernando Batista Pinto, Gilbert Silva, Regina Mambeli Barros

D-P57 Capping Agents Influence In Morphologies Of Bismuth and Mercuric Iodides Nanoparticles

Maia Mombrú, Ivana Aguiar, María Eugenia Pérez Barthaburu, Laura Fornaro

D-P58 Reuse Of A Catalytic Residue From A Fcc Unit As Cementitious Material

Jefferson Santos da Silva¹, Francisco Gabriel Santos Silva¹, Calline Rodrigues Gally¹, Jardel Pereira Gonçalves¹, Heloysa M C Andrade¹; ¹Universidade Federal da Bahia

D-P59 Lesr Study Of P3Ht:zno Nanoparticle Blend

Douglas Marcel Gonçalves Leite¹, Hussein Awada, Christine Dagron-Lartigau, Laurent Billon, Antoine Bousquet, Carlos F. O. Graeff¹; ¹Departamento de Física - Faculdade de Ciências - Unesp/bauru

D-P60 Magnetic Anisotropy and Magnetocaloric Effect On The Gd_{1-x}Pr_xNi₂

Pedro Henrique de Oliveira Lopes¹, Julio Cesar Guimarães Tedesco², Paula de Oliveira Ribeiro¹, Alexandre Magnus Gomes Carvalho³, Eduardo Nóbrega¹, Pedro Jorge Von Ranke¹, Airton Caldas⁴, Bruno de Pinho Alho¹, Nilson Antunes de Oliveira¹; ¹Universidade do Estado do Rio de Janeiro, ²Universidade Estadual de Campinas, ³Universidade Federal de São Paulo, ⁴Sociedade Unificada de Ensino Superior e Cultura

D-P61 Impregnation Of Bamboo Rods With Poly (Stryrene-Co-Methyl Methacrylate) Plasticized With Butyl Acrylate.

Sandra Patricia Reyes, David Arsenio Landinez¹, Luis Alejandro Boyaca Meldivieso¹, Normando Perazzo Barbosa²; ¹Universidad Nacional de Colombia, ²Universidade Federal da Paraíba

D-P62 Comparative Study Of Comparative Surfaces For Low Cost Solar Thermal Collectors

Karine Bezerra Bezerra¹, Francisco Nivaldo Aguiar Freire¹, Ana Fabíola Leite Almeida¹, Felipe Pereira Rodrigues¹; ¹Universidade Federal do Ceará

D-P63 Effect Of Addition Of Sugar Cane Fibers On The Properties Of Portland Cement

Kurt Strecker¹, Rodrigo Mario Corradini¹, Tulio Hallak Panzera¹; ¹Universidade Federal de São João Del Rei

D-P64 Electrochemical Carbon/niobium Oxide Capacitive Cells As Energy Storage Devices

José da Silva Junior¹, Carlos Renato Rambo; ¹Universidade Federal de Santa Catarina

D-P65 Electrical Properties Of Tio₂ Films Deposited On Si/sio₂

Suelen Castro¹, Rero Marques Rubinger¹, Francisco Moura Filho¹, Marcelos Lima Peres, Edna Raimunda da Silva, Carla Patrícia Lacerda Rubinger¹; ¹Universidade Federal de Itajubá

D-P66 Synthesis, Characterization and Catalytic Activity Evaluation Of The Bulk Catalyst Mowni For Petroleum Refining

Eduardo Haberbeck Brandão¹, Liu Yao Cho¹, Daniela Cristina dos Santos Duarte¹, Jorge Damião Souza¹, José Augusto Jorge Rodrigues; ¹Universidade do Vale do Paraíba

D-P67 Synthesis and Characterization Of Polyurethane Based In Green Polyol

Daniela Bresolin¹, Alexsandra Valério, Solange Mielke, Juçara Pereira Hobold, Claudia Sayer, Pedro Henrique Hermes de Araújo; ¹Universidade Federal de Santa Catarina

D-P68 Obtaining Bearing Steel With Addition Of Alumina Particles Through Powder Metallurgy Route

Dalton Garcia Borges Souza¹, Wellington Silvio Diogo¹, Rafaela Veloso de Oliveira¹, Gilbert Silva¹; ¹Universidade Federal de Itajubá

D-P69 Biocatalysts Supported On Mesoporous Silica Matrix For Environmental Remediation

Aline Aparecida Silva¹, Edésia Martins Barros de Sousa¹, José Domingos Ardisson¹, Jacqueline Aparecida Takahashi²; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²Universidade Federal de Minas Gerais

D-P70 Agroindustrial Wastes and Castor Oil Polyurethane Adhesive-Based Particulate Composite

Juliano Fiorelli, Holmer Savastano Junior, Francisco Antônio Rocco Lahr, Antonio Alves Dias, Ugo Bellini, Julian Mejia Ballesteros, Diogo de Lucca Sartori

D-P71 Preliminary Studies In Up and Down-Conversion In Borates Nano-Glass-Ceramic For Enhanced Solar Efficiency In Photovoltaic Cells

Andrés Cárdenas¹, Maia Mombrú¹, Mauricio Rodriguez¹, Laura Fornaro¹; ¹Universidad de La Republica

D-P72 Comparative Study Of The Variation Of Shore D Hardness In Samples Of Recycled Polyvinyl Chloride and Polyvinyl Chloride Recycled With Natural Fiber Coconut Shell Aged.

Bruno Mendes Nogueira, Hector Picarte Frago¹, Marcos Daniel Gouveia Filho¹, Enio Pontes de Deus¹; ¹Universidade Federal do Ceará

D-P73 Waste Processing and Marketing Of Refractory Steel Plants

Robersio Marinho de Faria¹, Fernando Vernilli Júnior¹, Sidney Nascimento Silva², Andre Tarcizo Oliveira Vieira², José Milton Gabriel Lopes¹, Leonardo Kenji Fudo Naito¹, Matheus Martini^{1,3}, Bruno Vidal Almeida¹; ¹Universidade de São Paulo, ²Companhia Siderúrgica Nacional, ³Escola de Engenharia de Lorena

D-P74 Comparative Study Of The Electrochemical Response Of Cobaltites With High Ba Content

Cristian Fabricio Martinez-Setevich¹, Fernando Prado, Daniel Zanetti de Florio, Alberto Caneiro; ¹Universidad Nacional Del Sur

D-P75 The Study Of Ultisol For The Production Of Soil - Cement Blocks

Robson Guimarães Sanabio¹, Valter Bezerra Dantas Dantas¹, Isaque Duarte Mendonça¹; ¹Universidade Federal do Rio Grande do Norte

D-P76 Hydrothermal Synthesized Cu(II) and Co(II) Sulfide Nanoparticles

Mirko Congiu¹, Carlos F. O. Graeff²; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru, ²Departamento de Física - Faculdade de Ciências - Unesp/bauru

D-P77 Xps Characterization Of TiO₂ Nanotube Decorated With Silver

Ana Maria Rocco, Jorge Trota Filho¹; ¹Universidade Federal do Rio de Janeiro

D-P78 Obtaining New Natural Dyes For Sensitizing Solar Photovoltaic Cells

Samuel Gondim Sampaio¹, Ana Fabíola Leite Almeida¹, Francisco Nivaldo Aguiar Freire¹, Tede Fernandes Mélo¹; ¹Universidade Federal do Ceará

D-P79 Physical Characterization Of Textile Fiber Wissadula Subpeltata and Its Potential As Composites Reinforcement.

Barbara Maria Gama Guimarães¹, Júlia Baruque Ramos¹, Waldir Mantovani¹; ¹Universidade de São Paulo

D-P80 Water-Soluble Chlorophyll Derivative For Energy Conversion Devices

Nathália Akemi Yoshioka¹, Luiza de Lazari Ferreira¹, Bruna Postacchini¹, Thiago Cazati¹; ¹Universidade Federal de Ouro Preto

D-P81 Study Of The Influence Of Dye In Conductivity Of Titanium Dioxide Layer In Solar Cell Sensitized By Organic Dye.

Maria Katiane Diogenes Marques¹, Francisco Marcone Lima, Francisco Nivaldo Aguiar Freire, Ana Fabíola Leite Almeida; ¹Universidade Federal do Ceará

D-P82 Polyanhydride Synthesis Derived From Babassu Oil and Its Characterization As Blend Pani/polyanhydride

Fernando Matos Borges¹, Francisco Xavier Nobre, Francisco Eroni Paz dos Santos, Nougá Cardoso Batista, José Milton Elias de Matos; ¹Universidade Federal do Piauí

D-P83 Recycling Of Construction Debris and Pvb In Ceramics

Antonio Hortencio Munhoz Jr.¹, Alexandre R. zandonadi¹, Leila F. de Miranda¹, Raquel Valério; ¹Universidade Presbiteriana Mackenzie

D-P84 Obtaining A Concrete Additive From Pvb

Antonio Hortencio Munhoz Jr.¹, Domingos Jafelice¹, Karina Cruz^{1,2}; ¹Universidade Presbiteriana Mackenzie, ²Grupo Falcão Bauer

D-P85 Performance Evaluation Of Titanate Nanotubes and Nanoribbons In Dye-Sensitized Solar Cells

Antonio Paulo Santos Souza, Ana Fabíola Leite Almeida, Francisco Nivaldo Aguiar Freire, Odair Pastor Ferreira, Francisco Klayton Maques Alencar, Maria Katiane Diógenes Marques

D-P86 Characterization Of Active Packaging Material Obtained By The Incorporation Of Natural Antimicrobial Agent (Buriti – Mauritia Flexuosa L. F.) In Chitosan Films.

Mariangela de Fátima Silva, Classius Ferreira da Silva, Cristiana Maria Pedroso Yoshida

D-P87 Water Absorption Analysis In The Ceramic Tile With Different Compositions Of Dimension Stone Wastes

Julmar Conceição Santos¹, Tiago Marvila Gomes¹, Patrícia Barcelos Souza¹, Simone Pereira Taguchi Borges¹; ¹Universidade Federal do Espírito Santo

D-P88 Sulfate Removal By Its Precipitation With Different Precipitating Compounds

Damaris Guimarães¹, Rafaela Aparecida Pedro Morais¹, Versiane Albis Leão¹; ¹Universidade Federal de Ouro Preto

D-P89 Evaluation Of Physical and Thermal Properties Of The Sustainable Products Based High Density Polyethylene (Hdpe) Post-Consumer

Luciana Portal da Silva, Wallace Cavalcante de Rezende, Thaline Castro Silva, Cristiane Rocha, Renée Louise Tatti Ferreira

D-P90 Influence Styrofoam Particle Size On The Properties Of Ciment Based Composites

Kurt Strecker¹, Livia Souza Oliveira¹, Tulio Hallak Panzera¹; ¹Universidade Federal de São João Del Rei

D-P91 Spectroscopy and Thermal Study Of Recovered Silica Gel

Juciely Carvalho Maia¹, Francisco Xavier Nobre¹, Maria Alexandra Sousa Rios¹; ¹Universidade Federal do Piauí

D-P92 Co₂ Mitigation Using Biphasic Calcium Phosphates

Fernando Santos Souza¹, Sidney Nicodemos da Silva¹, Ivete Peixoto Pinheiro¹; ¹Centro Federal de Educação Tecnológica de Minas Gerais

D-P93 Study Of Influence Of Particle Size On The Mechanical Properties Of Solid Biocombustibles Prepared With Eucalyptus Grandis By Cold Process

Alessandra Luzia da Róz¹, Bruna Farrapo Gonçalves¹, Ariane Aparecida Felix Pires¹, Fábio Minoru Yamaji¹; ¹Universidade Federal de São Carlos

D-P94 Morphology Study Of A Sign Based On Poly(Ethylene Imine) Sulfonated

Felipe Augusto Moro Loureiro¹, Robson Pacheco Pereira², Ana Maria Rocco¹; ¹Universidade Federal do Rio de Janeiro, ²Universidade Federal Fluminense

D-P95 Mechanical Behavior and Surface Analysis Of Epoxy Resin/glass Fiber Composites Of Blades For Wind Turbines Submitted To Accelerate Weathering

Elmo Silvano Araujo¹, Patricia Lopes Barros Araujo², Reginaldo Gomes de Lima Júnior³; ¹Universidade Federal de Pernambuco, ²Universidade Federal Rural de Pernambuco, ³Escola Técnica Senai Santo Amaro - Pe

D-P96 Proton Conductive Membranes Based On Sipn Networks Using Poly(Styrene-Co-Allyl Alcohol) For Application In Fuel Cells

Victor Oliveira Asfona¹, Felipe Augusto Moro Loureiro¹, Ana Maria Rocco¹; ¹Universidade Federal do Rio de Janeiro

D-P97 Fe₂O₃/al₂O₃ As A Catalyst For Degradation Of Azo Dyes

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D-P98 Variation Of Short Fiber Reinforcement In Polymer Composites Bamboo

Deibson Silva da Costa¹, Wassim Raja El Banna¹, Lirian Said de Lima¹, Eduardo Jesus Santos¹, Denilson da Silva Costa¹, Roberto Tetsuo Fujiyama¹, José Antônio da Silva Souza¹; ¹Universidade Federal do Pará

D-P99 Identification Of Potentially Toxic Metals In Batteries By Eds and Xrd

Ariane Maziero Santana¹, Luiz Rogério Lima¹, Mirian Cristina dos Santos¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

D-P100 Identification Of Potentially Toxic Elements In Cathode Ray Tubes Using Scanning Electron Microscopy and X-Ray Energy Dispersive Spectrometry.

Luiz Rogério Lima¹, Mirian Cristina dos Santos¹, Ariane Maziero Santana²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Estadual Paulista "Júlio de Mesquita Filho"

D-P101 Adsorption Of Reactive Dye From Water Solutions By Multi-Walled and Single-Walled Carbon Nanotubes: Experiment and Theory

Fernando Machado Machado^{1,2}, Carlos Pérez Bergmann¹, Éder Cláudio Lima¹, Iuri Jauris², Solange Binotto Fagan²; ¹Universidade Federal do Rio Grande do Sul, ²Centro Universitário Franciscano

D-P102 Study Of Mn_{3-x}Fe_xSn and Mn_{2-x}Fe_xSn, 0 ≤ X ≤ 1.25 Alloys For Thermomagnetic Motors Application

Marissol Rodrigues Felez¹, Fabiano Yokaichyia², Adelino de Aguiar Coelho³, Sergio Gama¹; ¹Universidade Federal de São Paulo, ²Laboratório Nacional de Luz Síncrotron, ³Universidade Estadual de Campinas

D-P103 Testing Izod Impact With Matrix Polyester Reinforced By Continuous Sponge Gourd Fibers

Michel Picanço Oliveira¹, Verônica Scarpini Candido¹, Sergio Neves Monteiro¹; ¹Instituto Militar de Engenharia

D-P104 Electrical Characterization Of Gadolinium Doped Barium-Zirconite Protonic Conductors

Daniel Zanetti de Florio¹, Everton Bertelli Moraes¹; ¹Universidade Federal do Abc

D-P105 Synthesis Of Ni-Doped Lacro₃

Victor Buratto Tinti¹, Fabio Coral Fonseca², Daniel Zanetti de Florio¹; ¹Universidade Federal do Abc, ²Nuclear and Energy Research Institute, Ipen-Usp/sp

D-P106 Influence Of The Silica Surface Area In The Dynamic Mechanic Properties Of Rubber Compound

Gerson Luiz Mantovani¹, Vinicius A. D. B. Lindo¹, Marcus V. Braum; ¹Universidade Federal do Abc

D-P107 Metathesis Depolymerization Of Natural Rubber Latex Using Ru-Based Catalysts

Sonia Esperanza Reyes-Gómez¹, Araceli Martínez¹, Mikhail A. Tlenkopatchev¹; ¹Universidad Nacional Autónoma de México

D-P108 Study On Cord-Rfl-Rubber System Interface

Gerson Luiz Mantovani¹, Thomas William Buss^{1,2}, Vinicius A. D. B. Lindo^{1,2}; ¹Universidade Federal do Abc, ²Pirelli Pneus

D-P109 Lbl Films Of Graphene Nanosheets In The Methanol Permeation Of Nafion 212 Membranes

Celina Massumi Miyazaki^{1,2}, Marystela Ferreira³, Antonio Riul Jr.⁴; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ²Universidade Federal de São Carlos - Campus Sorocaba, ³Universidade Federal de São Carlos, ⁴Universidade Estadual de Campinas

D-P110 Environmental Parameters Monitoring By Using Ceramic Sensors

Rodrigo de Matos Oliveira¹, Maria do Carmo de A. Nono¹, Gustavo de Souza Oliveira², Fernanda Cristina Reis²; ¹Instituto Nacional de Pesquisas Espaciais, ²Universidade do Vale do Paraíba

D-P111 Evaluation Of Borosilicate Glasses For Use In Sofc Cells

Juliana Pereira de Souza, José Roberto Martinelli, Signo Thadeu dos Reis

D-P112 ZnO Thin Films Prepared By Plasma Deposition For Solar Cell Applications

Vivienne Denise Falcao¹, Jose Roberto Branco², Diego Oliveira Miranda¹; ¹Instituto Federal de Educação, Ciência e Tecnologia de Minas Gerais, ²Fundação Centro Tecnológico de Minas Gerais

D-P113 Life Cycle Assessment Of Thin Film Photovoltaic Devices

Aline Manteiga Barreiro¹, Geneviève Kreibich Pinheiro¹, Dachamir Hotza¹, Carlos Renato Rambo¹; ¹Universidade Federal de Santa Catarina

D-P114 Synthesis and Thermoelectric Characterization Of Type-I and Type-Viii Clathrates Thin Film

Eduardo Souza Santos¹, Marcos A. Avila², Ronaldo Domingues Mansano¹; ¹Universidade de São Paulo, ²Universidade Federal do Abc

D-P115 Synthesis And Characteristics Of Nio-Cgo Composite Anodes For Sofc

Amanda Lucena de Medeiros, Rodrigo Cesar Santiago, Antonio Eduardo Martinelli, Dulce Maria de Araujo Melo

D-P116 Evaluation Of Pva Hydrolysis Degree Effect On Hybrid Membranes Properties For Defcs Applications

Ailton de Souza Gomes¹, José Carlos Dutra Filho¹; ¹Universidade Federal do Rio de Janeiro

D-P117 Pretreatment and Refining Of Sugarcane Bagasse Through Plasma In Liquid

Felipe Souza Miranda, Roberson José da Silva, Chanel Moacyr Carli, Sarita Cândida Rabelo, Carlos Eduardo Rossel, Homero Santiago Maciel, Rodrigo Sávio Pessoa, Lucia Vieira Santos Santos

D-P118 Use Of Polyaniline/ γ -Fe₂O₃ And Polypyrrole/ γ -Fe₂O₃ Magnetic Nanocomposites For The Removal Of Heavy Metal Ions From Aqueous Solutions

Alicia Elizabeth Chávez Guajardo, Juan Carlos Medina Llamas, Kleber Gonçalves Bezerra Alves, Celso Pinto de Melo

D-P119 Ag-Loaded Tio₂ Nanotube Arrays For H₂ Production

Renata Costa Souza¹, Alessandra Batista de Mattos, Taciana Pascoal, Janaína Viana de Melo, Giovanna Machado; ¹Centro de Tecnologia Estrategica do Nordeste

D-P120 Effect Of Addition Feldspathic Flux In Kaolinitic Clayey Residue From Tanks For Tilapia Farming

Igor Jefferson Araújo¹, Melise Carina Duarte Almeida², Kerson Carlos Lima Santos², Angelica Gilksana Souza Lima², Andrea Santos Pinheiro², José Nildo Galdino²; ¹Universidade Federal do Rio Grande do Norte, ²Centro de Tecnologia dos Gás e Energias Renováveis

D-P121 Zirconia-India Ceramics Sintered By Spark Plasma

Hermano Augusto Bonicio¹, Daniel Zanetti de Florio; ¹Universidade Federal do Abc

D-P122 WO₃/tio₂ Obtained By Hydrothermal Method

Suzane Cristina Fidelis, Isabela Alves de Castro, Cauê Ribeiro Oliveira

D-P123 Tio₂ Nanotubes Morphology Control For H₂ Production

Alessandra Batista de Mattos, Daniel Amancio Duarte, Taciana Pascoal, Germana Michelle Medeiros e Silva, Giovanna Machado

D-P124 A Model For Charge Transport In A Nano-Porous Network

Guilherme Alexandre Emidio¹, José Arruda Freire¹; ¹Universidade Federal do Paraná

D-P125 Study Of Oxygen Exchange and Diffusion Coefficients Of Nd₂Nio₄+D By Thermogravimetry Relaxation Technique

Alejandra Montenegro Hernández¹, Liliana Moggi¹, Adriana Cristina Serquis¹, Alberto Caneiro¹; ¹Instituto Balseiro

D-P126 Structural and Quantitative Analysis Of Burned Taguá Clay Samples.

Bruna Niccoli Ramirez^{1,2}, Juan Alfredo Guevara Carrió¹; ¹Universidade Presbiteriana Mackenzie, ²Universidade Federal do Abc

D-P127 Theoretical Studies Of Electronic and Optical Properties Of Ppy Oligomers

Liliana Yolanda Ancalla Dávila, Nilo Mauricio Sotomayor, Regina Lélis de Sousa, Marcelo Rodrigues Barbosa, Rui Siriano Ribeiro

D-P128 Simulation Of Spinel Formation In Al₂O₃-Mgo-C Refractories

Bruno Vidal Almeida¹, Matheus Martini^{1,2}, Fernando Vernilli Júnior^{1,2}, Robersio Marinho de Faria^{1,2}, Sara Carvalho^{1,2}, José Milton Gabriel Lopes^{1,2}, Luis Gustavo Gomes Pereira^{1,2}; ¹Universidade de São Paulo, ²Escola de Engenharia de Lorena

D-P129 Kinetic Study For The Synthesis Of Polyurethane Based On Castor Oil and Eucalyptus Tar Pitch

Renata Costa Silva Araújo¹, Vânia Márcia Duarte Pasa¹; ¹Universidade Federal de Minas Gerais

D-P130 Clays Of Low Plasticity As Desplastificante Mass For Use In Red Ceramic Industry

Melise Carina Duarte Almeida, Igor Jefferson Araújo, Kerson Carlos Lima Santos, José Nildo Galdino, Angelica Gilksana Souza Lima, Andrea Santos Pinheiro

D-P131 Durability Of Cellulose Cements Composites With Different Ratios Of Cement

Replacement By Quartz, Silica Fume and Rice Husk Ash On The Matrix.

Stefan Chaves Figueiredo¹, Conrado Souza Rodrigues¹, Maria Clara Ferreira Vasconcelos¹; ¹Centro Federal de Educação Tecnológica de Minas Gerais

D-P132 Synthesis and Characterization Of Monodispersed Simicrospheres.

Buno Rodrigues Silva¹, Rafael Melo Freire¹, Juliano Casagrande Denardin², Pierre Basílio Almeida Fechine¹; ¹Universidade Federal do Ceará, ²Universidade de Santiago de Chile

D-P133 Durability Of Autoclaved Cellulose Cements Composites With Different Ratios Of Cement Replacement By Quartz and Rice Husk Ash On The Matrix.

Stefan Chaves Figueiredo¹, Conrado Souza Rodrigues¹, Maria Clara Ferreira Vasconcelos¹; ¹Centro Federal de Educação Tecnológica de Minas Gerais

D-P134 Study Of Organic Semiconductors and Modified Fullerenes To Produce Bulk Heterojunction Organic Solar Cells

Gerson dos Santos^{1,2}, Bruno Tonon¹, Marco Roberto Cavallari¹, Ely Antonio Tadeu Dirani^{3,1}, Fernando Josepetti Fonseca¹; ¹Escola Politécnica de Universidade de São Paulo, ²Empresa Brasileira de Pesquisa Agropecuária, ³Pontifícia Universidade Católica de São Paulo

D-P135 Analysis Of Natural Fiber Drying Time For Optimization Of Thermal Treatment Methodology Using Stove For Polymeric Composite Development and Application

Arthur Machado Santana¹, Ana Luiza Costa Logrado Cedro¹, Caio Cezar Neves Kunrath¹, Eduardo Braga Costa Santos², Franco Dani Rico Amado¹; ¹Universidade Estadual de Santa Cruz, ²Fundo de Amparo A Pesquisa do Estado da Bahia

D-P136 Elaboration and Characterization Of Foam Glass From Cathode Ray Tubes (Crt)

Fernando Machado Machado^{1,2}, Andrea Pokorny Chiappin¹, Franco Fragomeni Tagliari¹, Carlos Pérez Bergmann¹; ¹Universidade Federal do Rio Grande do Sul, ²Centro Universitário Franciscano

D-P137 Synthesis Of Activated Carbons By Chemical Activation Of the Endocarp Of Babassu Coconut

Ewerton Barcellos¹, Gustavo Reis Gonçalves¹, Daniel Fernandes Cipriano¹, Hercilio Angeli Honorato¹, Alfredo Gonçalves Cunha¹, Miguel Angelo Schettino¹, Francisco Guilherme Emmerich¹, Jair Carlos Checon Freitas¹; ¹Universidade Federal do Espírito Santo

D-P138 Gas Hydrates Synthesis and Characterization For Geological Carbon Sequestration

Vanessa Silva da Silva, João Marcelo Medina Ketzer, Rogério Vescia Lourega

D-P139 Study Photocatalytic For H₂ Production By Layer-By-Layer In TiO₂ Nanotubes

Germana Michelle Medeiros e Silva¹, Newton Gil Peres¹, Alessandra Batista de Mattos, Giovanna Machado; ¹Centro de Tecnologia Estrategica do Nordeste

D-P140 Effect Of TiCl₄ Treatment On The Efficiency Of Dye Sensitized Solar Cells

Matheus Costa Oliveira¹, Rafael da Costa Brito¹, Rafael Mello Lattuada¹, Marcos Jose Leite Santos¹; ¹Universidade Federal do Rio Grande do Sul

D-P141 Molecular Dynamics Study Of Protonic Conductivity In Y-Doped BaZrO₃ Electrolytes

Fábio Eduardo Rosa Campolim¹, Daniel Zanetti de Florio¹; ¹Universidade Federal do ABC

D-P142 Surface Modification Of TiO₂ For Adsorption Of Cationic Dyes In Dye Sensitized Solar Cells.

Rafael da Costa Brito¹, Matheus Costa Oliveira¹, Patrícia Costa Ferreira¹, Jairton Dupont¹, Marcos Jose Leite Santos¹; ¹Universidade Federal do Rio Grande do Sul

D-P143 Textile Sludge and Wood Ash As Additives Admixtures For Cement Mortars

Wilma Albuquerque Leloup, Ana Cecilia Vieira Nóbrega, Erika Pinto Marinho, Antonio Eduardo Martinelli, Maria Das Vitórias Vieira Almeida Sá, Dulce Maria de Araujo Melo

D-P144 Lithium Induced Nanostructure In Poly(Ethylene Glycol) Distearate Block Copolymer Studied By Nmr

Gerson Luiz Mantovani¹, Tito José Bonagamba², Eduardo Ribeiro de Azevedo; ¹Universidade Federal do ABC, ²Instituto de Física de São Carlos

D-P145 Microstructure and Ionic Conductivity Of Gadolinia-Doped Ceria Solid Electrolyte With Additions Of SrO, TiO₂ and SrTiO₃

Eliana Navarro dos Santos Muccillo, Maria Cely Freitas Dias

D-P146 Obtaining Natural Fiber Composite Using Acoustic Coating

Maria da Rosa Capri¹, Talita Michele Corte¹, Daniella Cavalcante de Siqueira¹, Adilson Roberto Gonçalves¹, Naila Ribeiro Mori¹; ¹Escola de Engenharia de Lorena - USP

D-P147 Phenol Adsorption By Modified Clay From Brazilian Northeastern

Jorge Vinícius Cavalcanti, Mauricio Motta, Cesar Moraes Abreu, Osmar Souto Baraúna

D-P148 Effect Of The Gas Pulse Duty Cycle On The Optical Properties Of TiO_xN_y Thin Films Deposited By Gas Pulsing Magnetron Sputtering

Rodrigo Sávio Pessoa, Wallace Randal de Moura, George Tsuruji Kikuchi, Augusto Luiz Lopes, Juliano Libardi, Marcos Massi Massi, Homero Santiago Maciel, Lucia Vieira Santos

D-P149 Use Of Pet Residue As Catalyst For Biodiesel Production

Juliana Kelly Dionízio de Souza¹, Antônio Gouveia Souza¹, Ary da Silva Maia¹, Iêda Maria Garcia Santos¹, Maria Claudia Rodrigues Brandão¹, Petronio Filgueiras de Athayde Filho¹; ¹Universidade Federal da Paraíba

D-P150 Nanostructured TiO₂/cdte/pva Eta-Type Solar Cells

Geneviève Kreibich Pinheiro, Daliana Muller, Carlos Renato Rambo, Leticia Toreti Scarabelot, Marco Antonio Schiavon¹; ¹Universidade Federal de São João Del Rei

D-P151 Ab Initio Investigation Of Electronic Properties Of Dntt, Dnss and Datt

Jadson Xavier Cantuaria¹, Lucylia Trindade de Sousa¹, Regina Lélis de Sousa¹; ¹Fundação Universidade Federal do Tocantins

D-P152 Materials As A Solution To The Impact Caused By Consumption

Sônia Maria Assunção Veroneze, Thais Sydenstricker Flores-Sahagun

D-P153 Synthesis Of Coordination π -Conjugated Polymers For Photovoltaic Applications

Douglas Rosa Bernardo, Jonas Gruber, Ana Flávia Nogueira

D-P154 Ketalization Of Glycerol With Acetone Over Basic Catalysts Cao-Mgo

Ivan Cordova Reyes, Maria Manriquez R, Carmen Reza San German, Jose Hernandez Cortez, Juan Avendano Gomez, Ricardo Gomez R

D-P155 Study Of Thermal Processing Of Waste Of Iron Ore Treatment

Leandra Carla Aparecida Cordeiro, Jefferson Januário Mendes, Natália Lopes Zinato, Fernando Gabriel Araújo

D-P156 Crystal Violet Dye Degradation Using $\text{Fe}_2\text{O}_3/\text{ZrO}_2$ Catalyst

Alexilda Oliveira de Souza, Graziano Souza Oliveira¹, Geisiane Santos Novaes², Alessandro Santos Santana², Alvaro Costa Carvalho¹, Genebaldo Sales Nunes¹; ¹Universidade Estadual do Sudoeste da Bahia, ²Instituto Federal de Educação, Ciência e Tecnologia da Bahia

D-P157 The Effect Of The Preparation Method Of Co and Ni Catalysts Supported On Al_2O_3 On Their Structure and Activity In The Ethanol Catalytic Decomposition Reaction

Lucia Kiyomi Noda, Isabel Barretos Silva, Catherine Bonetti, Norberto Sanches Gonçalves

D-P158 Investigation Of The Synthesis Of SrSnO_3 Obtained By Combustion Reaction

Tatiane Martins Lobo, Ronan Lebullenger, Ingrid Tavora Weber, Fernanda Vasconcelos Almeida

D-P159 Stability Of TiO_2 -Based DsCs With Different Dyes Aged In Reverse Bias Regime: Impedance and J-V Measurements

Fabrizio Caprioli¹, Davide Pumiglia¹, Simone Mastroianni², Aldo Di Carlo², Franco Decker¹, Mirko Congiu³, Carlos F. O. Graeff⁴; ¹Università Degli Studi Roma La Sapienza, ²Chose - Centre For Hybrid and Organic Solar Energy, ³Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ⁴Departamento de Física - Faculdade de Ciências - Unesp/bauru

D-P160 Rehydration and Microstructure Of Cement Paste After Heating.

Aloízio Geraldo de Araújo Júnior¹, Adriano Galvão de Souza Azevedo, Deyller de Sousa Lima, Kurt Strecker, Carolina Torga Lombardi¹, Sergio Luiz Moni Ribeiro Filho¹; ¹Universidade Federal de São João Del Rei

D-P161 Study Of The Mechanical Behavior Of Hybrid Composite Formed By Thermoplastic Starch and Fiber Curauá/glass Manufactured By Hot Compression

Luiz Fernando Santos¹, André Tavares Rocha¹, Gabriel Anderson Martins¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Pará

D-P162 Electrical Characterization Of Porous Yttria-Stabilized Zirconia With Potassium Iodide Additions

Sabrina Gonçalves de Macedo Carvalho¹, Reginaldo Muccillo¹; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp

D-P163 Spectroscopic Study By Ftir and Uv-Vis Of The Blends Of Polyaniline and Polyurethane (Pani / Pu)

Francisco Xavier Nobre¹, Gabriela Barroso Souza², Francisco Ivan Silva¹, Fernando Matos Borges¹, Francisco Eroni Paz dos Santos¹, José Milton Elias de Matos¹; ¹Universidade Federal do Piauí, ²Universidade Federal de Sergipe

D-P164 Comparative Study Of Ru and Pt Complexes, Azo And Porphyrin Sensitized Solar Cells

Patrícia Isabel Jesus¹, Cristiana Marques¹, Carlos Serpa¹; ¹Universidade de Coimbra

D-P165 Downconversion Emission Of $\text{Er}^{3+}/\text{Yb}^{3+}$ Codoped Tellurite Glass

Marcio da Silva Figueiredo¹, Fábio Alencar dos Santos¹, João Carlos Silos Moraes², Luis Humberto da Cunha Andrade³, Sandro Marcio Lima³; ¹Universidade Federal da Grande Dourados, ²Faculdade de Engenharia Campus de Ilha Solteira, ³Universidade Estadual de Mato Grosso do Sul

SYMPOSIUM E

Structure- properties relationship of advanced metallic materials

ORAL SESSIONS

* Invited Lecture

TUESDAY, OCTOBER 01

SESSION OS5-6 (09:30 - 10:30) ROOM: 6

09:30 E-O1

Deformation and Recrystallization Behavior Of A Trip/twip Steel With 17% Mn and Low C
Mirelle Oliveira Spindola, Sara Silva Ferreira de Dafé, Denilson José do Carmo, Dagoberto Brandão Santos

09:50 E-O2

Tempering Treatments On Mechanical Properties Of 12.5Cr5.4Ni2Mo0.13Ti Supermartensitic Stainless Steel

César Augusto Duarte Rodrigues, Germano Tremiliosi-Filho, Alberto Moreira Jorge Junior^{1,2}, ¹Instituto de Química de São Carlos, ²Ufscar

10:10 E-O3

Effect Of Crack Depth On Crack Growth Resistance Behavior Of An Api X70 Steel For Iron Ore Pipeline
Leonardo Barbosa Godefroid¹, Geraldo Lúcio Faria¹, Igor Cuzzuol Santos¹, ¹Universidade Federal de Ouro Preto

SESSION OS6-6 (10:50 - 12:30) ROOM: 6

10:50 E-O4

Evaluating The Notch Sensitivity Of The Al-Mg-Si Aluminum Alloys
Ana Márcia Barbosa da Silva¹, Denise Ferreira Laurito Nascimento¹, Sandro Victor Polanco Espezua¹, Carlos Antonio Reis Pereira Baptista¹, ¹Universidade de São Paulo

11:10 E-O5

Effect Of Mechanically Milled Rare Earths In The A356 Aluminum Alloy

Eduardo Aguirre de La Torre¹, ¹Centro de Investigacion En Materiales Avanzados S.c.

11:30 E-O6

Structure-Property-Performance Characteristics Of Porous Aluminum Ia Experiments and Simulations

Lilian P. Dávila, Max Ernest Larner

11:50 E-O7

Cavitation Resistance Of An Fe-Mn-Cr-Si-B Austenitic Stainless Alloy

Juliane Ribeiro da Cruz¹, Sérgio Luiz Henke¹, André Ricardo Capra², ¹Universidade Federal do Paraná, ²Instituto de Tecnologia Para O Desenvolvimento

12:10 E-O8

Analysis Of The Cold Wire Drawing Process By Fem

Juliana Zottis¹, Rafael Pains Pavlak¹, Alexandre da Silva Rocha¹, Celal Soyarslan², ¹Universidade Federal do Rio Grande do Sul, ²Technische Universität, Institut Für Umformtechnik Und Leichtbau

SESSION OS7-6 (15:00 - 16:20) ROOM: 6

15:00 E-O9

Microstructural Characterization and Oxidation Behavior Of Tial Intermetallic

Angèlica Amigó, Manuel Carsi, Miguel Angel Lagos, Iñigo Agote, Montserrat Vicenta Haro, Vicente Amigó Borrás

15:20 E-O10

Phase Transitions In The Cu-9%al-10%mn-3%ag Alloy

André Paganotti, Maria Beatriz de Jesus Luiz da Motta, Leandro Marques Bosso, Camila Maria Andrade dos Santos, Thaisa Mary Carvalho, Antonio Tallarico Vicente Adorno, Ricardo Alexandre Galdino da Silva

15:40 E-O11

Analysis Of The Level Of Preferred Crystallographic Orientation In Steel By Th Ratio Of Peaks

(200)_{Alpha}/(100)_{Alpha} Modeled By Pearson Vii Function
Helder Carvalho Ferreira, Andreia Bicalho Henriques, Vicente Tadeu Lopes Bueno, Francisco Martins Boratto

16:00 E-O12

Study Of The Phase Identification By X-Ray Diffraction and Sem In The Ultra High Strength 18Ni Maraging 350M Steel

Luis Paulo Mourão dos Santos¹, Isaac Moreira Mesquita¹, Miloslav Beres¹, Hamilton Ferreira Gomes de Abreu¹, Marcelo José Gomes da Silva¹, ¹Universidade Federal do Ceará

WEDNESDAY, OCTOBER 02

SESSION OS9-6 (09:30 - 10:30)
ROOM: 6

09:30 E-O13

Creep Properties Of Ds Mar M247-Nb Modified

Alex Costa¹, Carlos Angelo Nunes¹, Gerhard Fuchs², Renato Baldan¹, Gilberto Carvalho Coelho^{3,1}, ¹Escola de Engenharia de Lorena - Usp, ²University Of Florida, ³Centro Universitário de Volta Redonda

09:50 E-O14

Multiaxial Fatigue Behavior Of Two Al-Mg-Si Alloys

Denise Ferreira Laurito Nascimento¹, Ana Márcia Barbosa da Silva, Carlos Antonio Reis Pereira Baptista, Angelo Souza, José Célio Dias; ¹Escola de Engenharia de Lorena

10:10 E-O15

Effect Of Embrittlement At 475°C In The Fatigue Strength Of A Lean Duplex Stainless Steel Uns S32304

Leonardo Barbosa Godefroid¹, Thompson Júnior Ávila Reis², Margareth Spangler Andrade³; ¹Universidade Federal de Ouro Preto, ²Faculdade Presidente Antônio Carlos de Conselheiro Lafaiete, ³Faculdade de Tecnologia Senai Belo Horizonte

SESSION OS10-6 (10:50 - 12:30)
ROOM: 6

10:50 E-O16

Laser Welding Of Aisi 304 Stainless Steel: Influence Of Operational Parameters

Bruno Nazário Coelho¹, Milton Sergio Fernandes de Lima², Adilson Rodrigues Costa¹; ¹Universidade Federal de Ouro Preto, ²Instituto de Estudos Avançados

11:10 E-O17

Heat Generation In Iso 3183 X80M Steel During Friction Stir Welding

Vinicius Mastelaro Rodrigues^{1,2}, Hugo Sakai Idagawa², Antonio J Ramirez^{1,2}; ¹Universidade Estadual de Campinas, ²Centro Nacional de Pesquisa em Energia e Materiais

11:30 E-O18

Physical Simulation By Hot Torsion Tests Of Friction Stir Welded Uns S32205 Duplex Stainless Steel

Eduardo Berton da Fonseca^{1,2}, Tiago Felipe de Abreu Santos³, Sergio Tonini Button¹, Antonio J Ramirez^{1,2}; ¹Universidade Estadual de Campinas, ²Laboratório Nacional de Nanotecnologia, ³Cpqq

11:50 E-O19

Fatigue Of Friction Stir Welded Az31B Magnesium Alloy By Semiautomatic Machine

Julián Arnaldo Ávila, Fernando Franco¹, Carlos Fernando Luna¹, Victor Pereira²; ¹Universidad Del Valle, ²Centro Nacional de Pesquisa em Energia e Materiais

SESSION OS11-6 (15:00 - 16:20)
ROOM: 6

15:00 E-O20

Oxygen Influence On The Glass Forming Ability Of Ni-Nb-Zr Alloys

Leonardo Pratavieira Déo¹, Felipe Henrique Santa Maria¹, Thais Helena Carvalho Miranda¹, Marcelo Falcão de Oliveira¹; ¹Universidade de São Paulo

15:20 E-O21

Experimental and Computational Study By Methods Ab-Initio Of The Structure Of Pyrite In Colombia

Andrés Mauricio Muñoz Garcia¹, Juan Fernando Montoya², Luis Fernando Duque¹, Moises Oswaldo Bustamante³, Martin Eduardo Espitia⁴, Jorge Iván Usma Gutiérrez¹; ¹Instituto Tecnológico Metropolitano, ²Corporación Universitaria Lasallista, ³Universidad Nacional de Colombia, ⁴Corporación Universitaria Minuto de Dios

15:40 E-O22

Eutectic Crystallization Behavior Of Amorphous Ti_{57.4}Cu_{33.4}Ni_{9.2} Alloy.

Marcio Mendes¹; ¹Universidade Federal de São Carlos - Campus: São Carlos

THURSDAY, OCTOBER 03

SESSION OS13-6 (09:30 - 10:50)
ROOM: 6

09:30 E-O23

Accurate Magnetostriction Measurements On Fe-Al Ribbons Using The Capacitance Dilatometry Technique

Claudio Teodoro dos Santos, Cristina Bormio Nunes¹, Mateus Botani Dias¹, Vagner de Oliveira Machado, Mathias Dörr²; ¹Escola de Engenharia de Lorena, ²Technische Universität Dresden

09:50 E-O24

Evaluation Of Magnetic Properties In Tempered Eurofer-97 Steel

Felipe Uhrigshardt Farrão¹, Maria José Ramos Sandim¹, Antonio Domingues Santos², Hugo Ricardo Zschommler Sandim¹; ¹Escola de Engenharia de Lorena, ²Instituto de Física da Universidade de São Paulo

10:10 E-O25

Magnetostriction Characterization (Quasi-Static) For Fe-Al-B Alloys To Be Applied In Sensors

Mateus Botani Dias¹, Cristina Bormio Nunes¹, Claudio Teodoro dos Santos¹, Vagner Oliveira Machado¹; ¹Universidade de São Paulo

PROGRAM

10:30 E-O26

Introducing Crystalline Defect In The Mgb2 Superconductors To Improve The Critical Current Density

Lucas Barboza Sarno da Silva¹, Eric E. Hellstrom², Durval Rodrigues Júnior¹; ¹Escola de Engenharia de Lorena - Universidade de São Paulo, ²Applied Superconductivity Center - Florida State University

POSTER SESSION

WEDNESDAY, OCTOBER 02

**SESSION PS3 (16:40 - 18:00)
ROOM: Poster Session**

E-P1 Structural and Magnetic Properties Of Magnetostrictive Transducers Based On The Half-Heusler (C1B) Alloy Mn-Co-Sn

Caio Boccato Dias Góes¹, Kewin Sachtleben¹, Clederson Paduani; ¹Universidade Federal de Santa Catarina

E-P2 Electronic Structure and Phase Stability Of Themagnetocaloric Compound (B31) β -MnAs

Kewin Sachtleben¹, Caio Boccato Dias Góes¹, Clederson Paduani; ¹Universidade Federal de Santa Catarina

E-P3 Metallography Analysis and Optical Microscopy For Microstructural Characterization Of Complex Phase Steel

Erica Ximenes Dias¹, Laís Yumi Horimoto¹, Marcelo dos Santos Pereira¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

E-P4 Laser Beam Forming Of Aeronautical Aluminum Sheets

Milton Sergio Fernandes de Lima¹, Sheila Medeiros de Carvalho², Rafael Humberto Mota de Siqueira³; ¹Instituto de Estudos Avançados, ²Instituto de Aeronáutica Espaço, ³Instituto Tecnológico de Aeronáutica

E-P5 Mechanical Behavior Of Advanced High Strength Steels After Laser Beam Welding

Gilson Carlos de Castro Correard¹, Milton Sergio Fernandes de Lima¹; ¹Instituto de Estudos Avançados

E-P6 Laser Carburizing Of Iron

Ivan Kwei Liu Kam, Milton Sergio Fernandes de Lima

E-P7 A New Proposal For Spacing Evolution Of Monotectic Alloys

Cássio Augusto Pinto da Silva, Maria Adrina Paixão de Souza da Silva, José Francisco Aparecido Braga

E-P8 High Temperature Creep Behavior At 500 Mpa In The 18Ni(300) Maraging Steel

Adriano Gonçalves dos Reis¹, Danieli Aparecida Pereira Reis^{1,2}, Carlos de Moura Neto¹, Antonio Jorge Abdalla³; ¹Instituto Tecnológico de Aeronáutica, ²Universidade Federal de São Paulo, ³Instituto de Estudos Avançados

E-P9 Primary Dendrite Arm Spacing Effects Upon Mechanical Properties Of An Al-6Wt% Zn Alloy

Givanildo Alves dos Santos¹, Pedro Roberto Goulart¹, Carlos de Moura Neto², Amauri Garcia³; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Instituto Tecnológico de Aeronáutica, ³Universidade Estadual de Campinas

E-P10 Creep Behavior Of Ti-6Al-4V Alloy Treated By High Temperature Nitrogen Plasma Based Ion Implantation

Thales Koba de Moura^{1,2}, Aline Capella de Oliveira^{3,2}, Danieli Aparecida Pereira Reis¹, Felipe de Campos Carreri, Rogério M Oliveira, Mario Ueda²; ¹Universidade Federal de São Paulo, ²Instituto Nacional de Pesquisas Espaciais, ³Instituto de Estudos Avançados

E-P11 The Influence Of Coating Carbide Tools For Turning Of Nickel-Based Superalloy Pyromet 31V

Renann Pereira Gama¹, Andre Luis Habib Bahia², Marcos Valerio Ribeiro¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp, ²Departamento de Ciência e Tecnologia Aeroespacial

E-P12 A New Sintered Hard Metal

Alessandra Agna Araújo dos Santos, Uilame Umbelino Gomes, Marciano Furukava

E-P13 Study Of Plasma Thermal Treatment In Welded Ti-6Al-4V Plate With Fiber Laser

Hélio Rubens Simoni¹, Milton Sergio Fernandes de Lima, Antonio Jorge Abdalla, Rogério Oliveira; ¹Instituto Tecnológico de Aeronáutica

E-P14 Effect Of Al and Ag Concentration On The Magnetic Behavior Of The Cu-10Wt.%mn Alloy

Thaís Mary Carvalho¹, Antonio Tallarico Vicente Adorno¹, Camila Maria Andrade dos Santos¹, Ricardo Alexandre Galdino da Silva², Marina Magnani¹, Raquel A. Ribeiro³; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de São Paulo, ³Universidade Federal do ABC

E-P15 Characterization Of Fracture Of Superalloy Inconel 718 Double Aged After Creep Tests At 700°C.

Katia Cristiane Gandolpho Candioto^{1,2}, Felipe Caliar³, Danieli Aparecida Pereira Reis^{4,3}, Antonio Augusto Couto^{5,1}, Carlos Moura Neto⁴, Carlos Angelo Nunes⁶; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp, ²Associação Educacional Dom Bosco, ³Universidade Federal de São Paulo, ⁴Instituto Tecnológico de Aeronáutica, ⁵Universidade Presbiteriana Mackenzie, ⁶Universidade de São Paulo

E-P16 Interpreting Strong Two-Photon Absorption Of Trans-Pt(Pbu₃)₂(C=C-C₆H₄-C=C-C₆H₄-C=C-C₆H₅)₂ Platinum Acetylide: Double Resonance and Excited State Absorption

Marcelo Gonçalves Vivas, Leonardo de Boni, Thomas Cooper, Cleber R. Mendonça

E-P17 A New Approach For The Synthesis Of Co Thin Films: Galvanic Displacement

Alan Massayuki Perdizio Sakita¹, Rodrigo Della Noce², Cecílio Sadao Fugivara², Assis Vicente Benedetti²; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho", ²Universidade Estadual Paulista Júlio de Mesquita Filho

E-P18 Use Of Polymer Solution and Mineral Oil As A Means Of Fast Cooling Plate Steel After Continuous Casting

José Roberto Sá de Oliveira¹, Carlos Alberto Martins Ferreira¹, Luis Philipe Barrozo Ferreira²; ¹Universidade Estadual da Zona Oeste, ²Universidade do Estado do Rio de Janeiro

E-P19 Microstructural Analysis Of Steel Sae 1020 Submitted To Different Heat Treatments

Alan Nogueira Carneiro¹, Lirian Said de Lima, Kazuó de Almeida Kamizono, José Maria do Vale Quaresma; ¹Universidade Federal do Pará

E-P20 Spin-Orbit Effect In N-Type Pbte/pb_{1-x}Eu_xTe Quantum Wells

Marcelos Lima Peres¹, Valmir Antonio Chitta², Paulo Henrique Rapp³; ¹Universidade Federal de Itajubá, ²Universidade de São Paulo, ³Instituto Nacional de Pesquisas Espaciais

E-P21 Microstructural Characterization Of Nickel Composites With H-Bn and C Processed By Powder Injection Molding

Moisés Luiz Parucker¹, Aloísio Nelmo Klein, Roberto Binder; ¹Universidade Federal de Santa Catarina

E-P22 Solution and Aging Heat-Treatment Of Inconel 713Lc Superalloy

Leonardo Silva Morgon¹, Edson Orati Silva, Renato Baldan, Alex Matos Costa, Gilberto Carvalho Coelho, Carlos Angelo Nunes; ¹Escola de Engenharia de Lorena

E-P23 Magnetic Behavior Of Duplex Steel Submitted To Aging Treatment

Claudiney de Sales Pereira Mendonça¹, Vander Alkmin dos Santos Ribeiro¹, Manoel Ribeiro da Silva¹, Carlos Alberto Rodrigues¹, Mirian de Lourdes Noronha Motta Melo¹, Edmilson Otoni Corrêa¹, Eduardo Miguel da Silva¹, Valesca Donizeti de Oliveira¹; ¹Universidade Federal de Itajubá

E-P24 Evaluation Of Corrosion Resistance Of Saf 2205 Duplex Stainless Steel After Solution Annealing Treatment

Maria Eurenice Cronemberger¹, Neide Aparecida Mariano, Renato de Mendonça¹, Erika Coaglia Trindade Ramos¹, Mariny Fabiéle Cabral Coelho¹, Mirian de Lourdes Noronha Motta Melo²; ¹Universidade Federal de Alfenas, ²Universidade Federal de Itajubá

E-P25 Kinetics Of The Bainitic Phase Precipitation In The Cu-11Wt.% Al-10Wt.%mn and Cu-11Wt.% Al-10Wt.%mn-3Wt.%ag Alloys

Camila Maria Andrade dos Santos¹, Antonio Tallarico Vicente Adorno¹, Ricardo Alexandre Galdino da Silva², Thaisa Mary Carvalho; ¹Universidade Estadual Paulista, ²Universidade Federal de São Paulo

E-P26 Laser Nitriding Of Titanium Alloys During Coaxial Laser Cladding

Juan José Candel Bou¹, João Batista Fogagnolo², Vicente Amigó Borrás¹; ¹Universidad Politécnica de Valencia, ²Universidade Estadual de Campinas

E-P27 Texture Evolution Study Of Zircaloy-4 With Different Rolling Hot Conditions

Rafael Silva Lima, Regina Araújo Vieira, Hamilton Ferreira Gomes de Abreu, Marcelo José Gomes da Silva

E-P28 Superamphiphobicity On Copper Surface Obtained By Silver Depositon and Tmpsi/ptfe Coating

Thomaz Cabral Rangel, Alexandre Fassini Michels, Flavio Horowitz, Daniel Eduardo Weibel

E-P29 Flow Instability In High Nitrogen Austenitic Stainless Steel Iso 5832-9

Jose Helio Sobrinho, Eden Santos Santos, Samuel Filgueiras Rodrigues, Gedeon Silva Reis

E-P30 Structural and Magnetic Effect Of Ni Substitution By Co In Yco_{4-x}Ni_xB Intermettalic Alloys.

Richard Javier Caraballo Vivas¹, Daniel Leandro Rocco¹, Mario de Souza Reis¹; ¹Universidade Federal Fluminense

E-P31 Synthesis, Crystal Structure, Magnetic Properties and Mössbauer Spectroscopy Of The Fe_{2+x}Cr_{1-x}Al System In The L₂₁ (X₂Yz) Structure.

Walmir Eno Pottker, Marcos Cesar Vergés, Thiago Gilberto do Prado, José Pedro Mansueto Serbena

E-P32 Charpy Impact Test Of An Astm A-297 Gr Hp Steel Modified With Niobium

Maria Cristina Adami Gatti¹, Danilo Borges Villarino de Castro, Cassius Terra Ruchert, Dirceu Spinelli, Waldek Wladimir Bose Filho; ¹Universidade de São Paulo

E-P33 Morphology and Composition Of Phases ε and γ' Developed On Nitriding Of Fe-Samples With Mo Surface Layer Alloyed

Tatiana Bendo¹, Javier Acuña², Ana Maria Maliska¹, Aloísio Nelmo Klein¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal do Abc

E-P34 Assessment Of Tertiary Dendritic Growth In Sn-0.7Wt%cu-3.0Wt%ag Solder Alloy

Thiago Pama Lopes¹, Igor Jefferson Araújo², Bismarck Luiz Silva¹, José Eduardo Spinelli¹; ¹Universidade Federal de São Carlos, ²Universidade Federal do Rio Grande do Norte

E-P35 Transient Directional Solidification Of A Eutectic Bi-2.5Wt%ag High-Temperature Solder Alloy

Henrique Yuji Tati¹, Bismarck Luiz Silva¹, José Eduardo Spinelli¹; ¹Universidade Federal de São Carlos

E-P36 Corrosion Resistance Of The Martensitic Layer On The Surface Of 409 Ferritic Stainless Steel Obtained By Shtpn

Roberto Luís de Assumpção¹, Paulo César Borges¹, Márcio Mafra¹; ¹Universidade Tecnológica Federal do Paraná

E-P37 Study Of The Heat Treatment Effect On The Mechanical Properties Of Api 5L X56 Steel

Luiz Gustavo Ferreira¹, Miguel Justino Ribeiro Barbosa¹, Verônica Oliveira¹; ¹Universidade de São Paulo

E-P38 Characterization Of Alb₂ Single Crystal

Jean Souza Matias¹, E. Thizay Magnavita¹, Carlos Rettori¹, Leticie Mendonça Ferreira¹, Raquel A. Ribeiro¹; ¹Universidade Federal do Abc

E-P39 Effect Of Nickel On The α' Phase Precipitation In Superferritic Stainless Steel With High Molybdenum Content

Lorena Braga Moura¹, Hamilton Ferreira Gomes de Abreu², Alexander Catunda Carneiro¹, Lucas Sousa Félix¹, José Nilson da Cunha Bezerra Filho¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Ceará, ²Universidade Federal do Ceará

E-P40 Ageing Behavior In The Cu-7%al-10%mn-3%ag Alloy

Maria Beatriz de Jesus Luiz da Motta, Leandro Marques Bosso, André Paganotti, Antonio Tallarico Vicente Adorno, Thaisa Mary Carvalho, Camila Maria Andrade dos Santos, Ricardo Alexandre Galdino da Silva¹; ¹Universidade Federal de São Paulo

E-P41 Mechanical Characterization Of A Steel Aisi 43100 Submitted To Different Routes Of Heat Treatments

Ana Lídia Frade Drumond¹, Antonio Jorge Abdalla^{2,3}, Carlos de Moura Neto¹, Tomaz Manabu Hashimoto²; ¹Instituto Tecnológico de Aeronáutica, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Instituto de Estudos Avançados

E-P42 Plasma Nitriding Aisi P20 Tool Steel: Influence Of Temperature and Composition Of The Gaseous Atmosphere

Viviane Lilian Soethe, Moisés Luiz Parucker¹, Edinei Locks Jr¹, Vinicius Oliveira Coelho², João Vitor Rodrigues², Leonardo Rocha¹; ¹Centro Universitário Católica de Santa Catarina, ²Universidade Federal de Santa Catarina

E-P43 Microstructural and Mechanical Analysis Of Heat Treated Al-3Fe Alloy From Powder Extrusion Consolidated Ingots

José Micael Delgado Barbosa¹, Mauricio Mhirdaui Peres^{1,2}, Walter José Botta Filho², Alberto Moreira Jorge Junior³, Danielle Golebiowski Ren¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal de São Carlos, ³Universidade Federal de São Carlos - Campus: São Carlos

E-P44 Magnesium Alloy: Relationship Between Structure and Mechanical Properties In The Alloy Mg-Al-Ca-La

Sergio Luiz Telles Bartex¹, André Gonçalves Garcia; ¹Universidade Federal do Rio Grande do Sul

E-P45 Mechanical Properties Improvement Of An Hsla Steel Pipe During The Fabrication Process.

Peterson Ferrandini¹, Roberto Davi Oliveira²; ¹Faculdade de Engenharia de Guaratinguetá - Unesp, ²Faculdade de Engenharia de Guaratinguetá

E-P46 Simulação Numérica do Ensaio de Tração Simples e Comparação Com Resultados Experimentais Para Aço If.

Caroline Zanini Bressan, José Divo Bressan

E-P47 Thermomechanical Processing Of Ultra-High Mechanical Performance 400 Grade Maraging Steel

Fernando Henrique Gomes de Souza, Gilberto Alvares, Jorge Otubo

E-P48 Analysis Of The Fracture Surfaces In Niti Wires Subjected To Rotary Bending Fatigue

Brunella Campos Torres¹, Isadora Maria Oliveira Anício Costa¹, Vicente Tadeu Lopes Buono¹, Ana Maria Gontijo Figueiredo¹; ¹Universidade Federal de Minas Gerais

E-P49 Effect Of Processing Route On The Properties Of Stainless Fe-Mn-Si-Cr-Ni-Co Shape Memory Steel

Karine Andrea Käfer¹, Heide Heloise Bernardi^{1,2}, Leonardo Kenji Fudo Naito¹, Jorge Otubo¹; ¹Instituto Tecnológico de Aeronáutica, ²Faculdade de Tecnologia de São José dos Campos

E-P50 Electron Momentum Density Distribution In Hcp-Ti

Vimal Vyas¹; ¹Banasthali University

E-P51 Correlation Between Primary Dendritic Arm Spacing Andhardness Of An Al-Sn Alloy

Syrleire Lopes de Paula Silva¹, Cibele Vieira Arão da Silva¹, Angela de Jesus Vasconcelos², Maria Adrina Paixão de Souza da Silva¹, Otávio Lima da Rocha²; ¹Universidade Federal do Pará, ²Instituto Federal de Educação, Ciência e Tecnologia do Pará

E-P52 Numerical Analysis Of The Tribological Behavior Of An Al-Bi Monotectic Alloy In A Wear-Resistencia Process

Layo Ricardo Machado Leal¹, Paulo Henrique Reis da Cunha, Maria Adrina Paixão de Souza da Silva, Estillac Lins Maciel Borges Filho, Emmanuelle Sá Freitas; ¹Universidade Federal do Pará

E-P53 Crystallographic Texture Of Zirconium Alloys

Alan Iecker Lima Santana¹, Gilberto Alexandre Castello Branco¹, Cristiane Maria Basto Bacaltchuk², Dilson Silva dos Santos³, Luiz Paulo Mendonça Brandão⁴; ¹Centro Federal de Educação Tecnológica C.s.f., ²Federal de Educação Tecnológica C.s.f., ³Universidade Federal do Rio de Janeiro, ⁴Instituto Militar de Engenharia

E-P54 "secondary Dendrite Arm Spacing In Horizontal Directional Solidification Of Al-6%cu-4%si Alloy"

Thiago Antônio Paixão de Sousa Costa¹, Rafael Hideo Kikuchi², José Marcelino Dias Filho², Otávio Lima da Rocha², Antônio Luciano Moreira¹; ¹Universidade Federal do Pará, ²Instituto Federal de Educação, Ciência e Tecnologia do Pará

E-P55 Fatigue Crack Nucleation Of New Al-Li Alloys

Luis Henrique Camargo Bonazzi, Otávio Contart Gamboni, Cassius Terra Ruchert, Emilio Paredes, Waldek Wladimir Bose Filho

E-P56 Influence Of Thermal Aging At 475 °C On The Corrosion Resistance Of Lean Duplex Stainless Steel 2101

Rodrigo da Silva¹, Vinicius Araújo Santos, Cleber Moretti, Carlos Alberto Della Rovere, Sebastião Elias Kuri; ¹Universidade Federal de São Carlos - Campus: São Carlos

E-P57 Elaboration and Microstructural Characterization Of A Fe-Mn-Si-Cr-Ni Shape Memory Stainless Steel With Low Mn Content

Rafael Wagner Simon¹, Carlos Alberto Della Rovere¹, Enrico José Giordano¹, Sebastião Elias Kuri¹; ¹Ufscar

E-P58 Mechanical Properties Of Metallic Nanowires Via Molecular Dynamics Simulations

Sócrates de Oliveira Dantas¹, Jackson Borges Machado¹; ¹Universidade Federal de Juiz de Fora

E-P59 Microstructural Characterization Of Welded Duplex Stainless Steel

Silvia Midori Higa¹, Carlos Alberto Della Rovere¹, Sebastião Elias Kuri¹; ¹Ufscar

E-P60 Rapid Solidification Of Cu-11.85Al-3.2Ni-3Mn Shape Memory Alloy

Eric Marchezini Mazzer¹, Fernando Henrique Paes de Almeida¹, Claudio S. Kiminami¹, Claudemiro Bolfarini¹, Walter José Botta¹, Piter Gargarella², Jürgen Eckert²; ¹Universidade Federal de São Carlos - Campus: São Carlos, ²Leibniz Institute For Solid State and Materials Research

E-P61 Analisis Of The Behavior Of Niti Wires Subjected To Rotary Bending Fatigue Under Different Temperatures

Isadora Costa¹, Brunella Campos Torres¹, Vicente Tadeu Lopes Buono¹, Ana Maria Gontijo Figueiredo¹; ¹Universidade Federal de Minas Gerais

E-P62 Comparing The Wear Resistance Of Aisi 304 Steel Plasma Nitrocarburized and Plasma Carburized At Low Temperatures

Paula Cisquini¹, Adonias Ribeiro Franco Júnior¹, Estéfano Aparecido Vieira¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo

E-P63 Nanohardness Measurements On The Reversespinodal Decomposition In Duplex Stainless Steel

José Mario Carneiro Vilela, Elenice Cavichioli Borba, Margareth Spangler Andrade¹; ¹Centro de Tecnologia Senai Cetec

E-P64 Phase Transformation In The Ti-5553 Alloy With Addition Of Nb

Denis Renato Andrade¹, Victor Carvalho Opini¹, Rubens Caram¹; ¹Universidade Estadual de Campinas

E-P65 Determination Of The Structure/properties Relationship In The Ferroelectric Ceramics Of Lanthanum Modified Lead Zirconate Titanate ((Pb₉₁La₉)(Zr₆₅Ti₃₅)O₃) By The Refinement Of Their Diffraction Profiles As A Function Of Temperature.

Douglas Henrique Marcelino de Azevedo¹, Eriton Rodrigo Botero², Ducinei Garcia, Seila Rojas Souza²; ¹Universidade Federal da Grande Dourados, ²Fundação Universidade Federal da Grande Dourados

E-P66 Microstructural Characterization Of Coatings In Nickel Super Alloys Deposited By Processes Gmaw and Gmaw-Cw In Carbon Steel.

Diego Almir Silva da Silva, Adriane Lopes Mougo, Henrique Pinheiro Espirito Santo, Marco Antonio Martins Modesto, Bruno Alberto Cardoso Pignatario, Fabrício Paiva da Silva, Anne Alcantara Melo, Felipe Ribeiro Teixeira, Carlos Alberto Mendes Mota¹; ¹Universidade Federal do Pará

E-P67 Creep Behavior Of Superalloy Inconel 718 After Double Aging Heat Treatment.

Fabírcia Assis Resende¹, Felipe Caliar², Danieli Aparecida Pereira Reis², Carlos de Moura Neto³, Miguel Justino Ribeiro Barbosa¹; ¹Escola de Engenharia de Lorena - Usp, ²Universidade Federal de São Paulo, ³Instituto Tecnológico de Aeronáutica

E-P68 Electrochemical Corrosion Behavior Of Fe-Mn-Si-Cr-Ni-(Co) Shape Memory Stainless Steels In Nitric Acid Medium

Carlos Alberto Della Rovere, José Henrique Alano, Rodrigo Silva, Jorge Otubo, Sebastião Elias Kuri

E-P69 Heat Treatment Of Alloy 7075 Used In Aerospace Applications

Carlos Alberto Rodrigues, Larissa Sued, Mirian de Lourdes Noronha Motta Melo

E-P70 Tempering Effect In Stainless Martensitic Steel With Low Carbon Concentration

Neide Aparecida Mariano¹, Renato de Mendonça¹; ¹Universidade Federal de Alenas

E-P71 Methallurgical Evaluation Of Weld Deposited By Gmaw and Gmaw-Cw With Different Energy Welding.

Marco Antonio Martins Modesto, Humberto Muñoz Aguirre, Felipe Ribeiro Teixeira, Arley Souza Luz, Gilcimar Pereira, Marcio Wagner Santos, Carlos Alberto Mendes Mota, Thiago Fernandes Ferrão¹; ¹Universidade Federal do Pará

E-P72 Microstructural Study Of Inconel 718 Superalloy After Creep Mechanical Test

Tarcila Sugahara, Fabiano Montoro, Danieli Aparecida Pereira Reis, Carlos de Moura Neto

E-P73 Evaluation Of Resistivity Measurements Of Thin Films Applied To The Induction and Dissipation Process Of Eddy Currents

Hugo Borges de Quadros¹, Viviane Lilian Soethe, Mirabel Cerqueira Rezende, Patrício Enrique Bejar Rojas, Evandro Luis Nohara, Rafael Gallina Delatorre, Gabriel Wetsphal; ¹Universidade Federal de Santa Catarina

E-P74 Effect Of Grain Refinement By Addition Of 0,3Wt.%ti In The Cu-11,8Wt.%al-0,6Wt.%be Shape Memory Alloy

Manoel Quirino Silva Júnior¹, Áleft Verlanger Rocha Gomes¹, Diego Lima Sousa¹, Dácio Germano Xavier Rebouças Júnior¹, João Victor Queiroz¹, Nathália Viviane de Sousa Freitas¹; ¹Universidade Federal Rural do Semi-Árido

E-P75 Mechanical and Microstructural Characterization Of Api 5L X70 Steel

Igor Jefferson Araújo¹, Melise Carina Duarte Almeida¹, Kerson Carlos Lima Santos, Rômulo Dantas Saldanha¹; ¹Universidade Federal do Rio Grande do Norte

E-P76 Effect Of Be Content On Precipitation Of The γ_2 -Cu₉Al₄ Fase On Cu-Al-Be Hypoeutectoid Shape Memory Alloy

Manoel Quirino Silva Júnior¹, Áleft Verlanger Rocha Gomes¹, Diego Lima Sousa¹, Nathália Viviane de Sousa Freitas¹; ¹Universidade Federal Rural do Semi-Árido

E-P77 Ferrous Composites Containing Hbn Produced By Double Pressing Technique

Priscila Costa Gonçalves¹, Gisele Hammes¹, Kaline Pagnan Furlan¹, Cristiano Binder¹, Aloísio Nelmo Klein¹; ¹Universidade Federal de Santa Catarina

E-P78 Addition Effect Of Quasicrystalline Particles In The Development Of Geopolymeric Composite Alcufe

Maria Bandeira Barroso¹, Severino Jackson Guedes Lima², Sandro Marden Torres², Rosa Medeiros Marinho³, Francisca Martins Pereira¹, Maria Isabel Brasileiro¹; ¹Universidade Federal do Ceará, ²Universidade Federal da Paraíba, ³Universidade Regional do Cariri

E-P79 Study Of The Influence Of Aging Treatment In The Hardness Of Alloy Remelting

Aline Silva¹, Carlos Alberto Rodrigues¹, Paulo Junho Oliveira¹, Mirian de Lourdes Noronha Motta Melo¹; ¹Universidade Federal de Itajubá

E-P80 Evolution Of Macrostructural Alloys Al-Si-Cu Fabricated By Process Squeeze-Casting

Claudio Alves Siqueira¹, Diogenes Linard Freitas¹; ¹Universidade Federal da Paraíba

**E-P81 Analysis Of Mechanical Properties Of Al-Si Alloys Fabricated By Process **

Claudio Alves Siqueira¹, Diogenes Linard Freitas¹; ¹Universidade Federal da Paraíba

**E-P82 Analysis Macrostructural and Microstructural Of Al-Si Alloys Fabricated By Process **

Claudio Alves Siqueira¹, Eudes Leonnan Medeiros¹; ¹Universidade Federal da Paraíba

E-P83 Study Of Corrosion Of Al7050 In Saline Medium: Analysis Of Mass Loss and Of Type Corrosion With and Without Tension

Luiz Fernando Santos¹, Rytney Santos Costa¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Pará

E-P84 fracture Toughness Properties Of Machined Specimens From Cast and Forged Railroad Steel Wheels

Syme Regina Souza Queiroz¹, Domingos José Minicucci, Syme Regina Souza Queiroz, Valdir Alves Guimarães, Itamar Ferreira; ¹Universidade Estadual de Campinas

E-P85 Structural Analysis With Finite Element Method In Four Application Cases For A Dynamic Compression Plate

João P.o. Freitas, Cesar Renato Foschini, Edson A.c. Souza, Sheila C. Rahal, Rogerio R. Santos, Otavio G. Foster, Lucas R.o. Ferreira

SYMPOSIUM F

Organic Electronics and hybrids: materials and devices

ORAL SESSIONS

* Invited Lecture

MONDAY, SEPTEMBER 30

SESSION OS1-8 (09:30 - 10:30) ROOM: 8

09:30 F-O1

The Electrical Switching Behavior In Iron-Oxide-Filled Carbon Nanotubes

Carlos Eduardo Cava¹, Clas Persson², Aldo J.g. Zarbin, Lucimara Stolz Roman; ¹Universidade Tecnológica Federal do Paraná, ²University Of Oslo / Universitetet I Oslo

09:50 F-O2

Conformational Study Of Fluorene and Terthiophene Copolymer For Photovoltaic Applications

Cleber Fabiano Marchiori¹, Natasha A. D. Yamamoto¹, Isabel Romero Grova, Andréia Gerniski Macedo², Leni Campos Akcelrud¹, Lucimara Stolz Roman¹, Marlus Koehler¹; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná

10:10 F-O3

A Facile Combination Of Electroluminescence and Photoluminescence Properties To Produce White Light Based On Polymeric Light-Emitting Diodes

Fernando Junior Quites¹, Teresa Dib Zambon Atvars¹, Gregorio Couto Faria²; ¹Universidade Estadual de Campinas, ²Universidade de São Paulo

SESSION OS2-8 (10:50 - 12:30) ROOM: 8

10:50 F-O4*

Ink-Jet and Gravure Printed Electronics

Gregory Lewis Whiting¹; ¹Palo Alto Research Center

11:30 F-O5

Structure and Dynamics Of Polyfluorene-Based Organic Semiconductors Devices: Influence On The Electrical Response and Trap States Profile

Gregorio Couto Faria¹, Eduardo Ribeiro de Azevedo, Heinz Von Seggern; ¹Universidade de São Paulo

11:50 F-O6

Light Emission Improvement In Quantum Well Based Organic Led'S

Vinicius Cristaldo Heck, Gregorio Couto Faria, Francisco Eduardo Gontijo Guimarães

12:10 F-O7

New Columnar Zn-Phthalocyanine Designed For Electronic Applications

Ivan Helmuth Bechtold^{1,2}, Juliana Eccher¹, Gregório Couto Faria³, Hugo Gallardo¹, Fernando Molin¹, Nicholas Gobo⁴, Kleber Thiago Oliveira⁴, Heinz Von Seggern²; ¹Universidade Federal de Santa Catarina, ²Universidade Tecnológica de Darmstadt, ³Instituto de Física de São Carlos, ⁴Universidade Federal de São Carlos

SESSION OS3-8 (15:00 - 16:20) ROOM: 8

15:00 F-O8*

Multi-Ferroic Functions Developed By Magnetic Field Effects Of Excited States In Organic Semiconductors

Bin Hu¹; ¹University Of Tennessee Knoxville

15:40 F-O9

Study Of Polymeric Nanomolds

Silésia de Fátima Curcino da Silva¹, Mauricio Foschini¹, Raigna Augusta da Silva Zadra Armond¹, Alexandre Marletta¹; ¹Universidade Federal de Uberlândia

SESSION OS4-8 (16:40 - 18:00) ROOM: 8

16:40 F-O11*

Nonlinear Optical Phenomena In Nanocomposites

Cid Bartolomeu de Araújo¹; ¹Universidade Federal de Pernambuco

17:20 F-O12

A Comprehensive Study Of Structure-Property Relationships For Two-Photon Absorbing Triarylamine Molecules Containing Trifluoromethyl

Marcelo Gonçalves Vivas, Daniel L. Silva, Leonardo de Boni, Elena Ishow, Robert Zalesny, Wojciech Bartkowiak, Sylvio Canuto, Cleber R. Mendonça

17:40 F-O13

Monte Carlo Simulation Of Percolation Threshold and Conductivity In Composites With Fiber-Like Fillers: Influence Of Aspect Ratio Polydispersity and Tunneling Resistance

Rafael Guntzel Arenhart¹, Guilherme Mariz de Oliveira Barra, Celso Peres Fernandes; ¹Universidade Federal de Santa Catarina

PROGRAM

TUESDAY, OCTOBER 01

SESSION OS5-8 (09:30 - 10:30)

ROOM: 8

09:30 F-O14

Theoretical and Experimental Investigations On Photodegradation Process Of Bilirubin

Melissa F. Siqueira Savedra¹, Lucas Corrêa Cardoso¹, Mariana de Melo Silva¹, Ranylson Marcello Leal Savedra², Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de São Carlos

09:50 F-O15

Spectroscopic Ellipsometry and Uv-Vis Characterization Of Self Assembled Films Of Pani

Alisson de Jesus Santana¹, Joaquim Brasil Filho¹, Ángel Alberto Hidalgo¹; ¹Universidade Federal do Piauí

10:10 F-O16

Comparative Analysis On The Optical Properties Of Bilirubin and Meh-Ppv Thin Film Under Blue, Green and Blue-Green Light Therapies

Giovana Ribeiro Ferreira, Antônio Maurício Tannure Fonseca, Lucas Corrêa Cardoso, Melissa F. Siqueira Savedra¹, Rodrigo Fernando Bianchi; ¹Universidade Federal de Ouro Preto

SESSION OS6-8 (10:50 - 12:30)

ROOM: 8

10:50 F-O17*

Polymethine Dyes For Photon Harvesting and Energy Conversion In The Far Red To Nir.

Geiger Thomas¹, Anna Christina Véron¹, Frank Nüesch¹; ¹Swiss Federal Laboratories For Material Science and Technology

11:30 F-O18

Near Infrared Absorbing Colorants With Application In Light To Energy Conversion

Anna Christina Véron¹, Chuyao Peng¹, Jakob Heier¹, Anthony Linden², Frank Nüesch¹, Geiger Thomas¹; ¹Swiss Federal Laboratories For Material Science and Technology, ²University Of Zurich

11:50 F-O19

Microwave Assisted Synthesis Of Highly Dispersed Polypyrrole

Walter Mendes de Azevedo, Diego L da Cunha, Eronides Felisberto da Silva Jr

12:10 F-O20

Bias Stress and Atmospheric Role On The Performance Degradation Of Poly(3-Hexylthiophene) Thin-Film Transistors

Marco Roberto Cavallari¹, Marcio de Almeida Vallle¹, Eduardo Martin Rodriguez², Estrella F. Gonzalez Rodriguez², Fernando Josepetti Fonseca¹; ¹Escola Politécnica de Universidade de São Paulo, ²Instituto Superior Politécnico José Antonio Echeverría

POSTER SESSION

TUESDAY, OCTOBER 01

SESSION PS2 (16:40 - 18:00)

ROOM: Poster Session

F-P1 Structure Control Of Poly(P-Phenylene Vinylene) In Layer-By-Layer Films By Deposition On A Charged Poly(O-Methoxyaniline) Cushion.

Alexandre Marletta, Erick Piovesan, Maria Letícia Vega, Carlos José Leopoldo Constantino, Raigna Augusta da Silva Zadra Armond, Nara Cristina de Souza, Osvaldo Novais Oliveira Jr

F-P2 Study Of Polyaniline/carbon Nanotubes Composite, Electrical Properties and Application In Field Effect Transistors.

Luiz Carlos Mariano¹; ¹Universidade Federal do Paraná

F-P3 Preparation and Study As Positive Electrode Of Li0.33La0.56Tio3-Pani Nanocomposite

Carlos Ricardo Milian Pila¹, Yodalgis Mosqueda¹, Eduardo Lázaro Perez-Cappe¹, Oswaldo Luiz Alves²; ¹Universidad de La Habana, ²Universidade Estadual de Campinas

F-P4 Optical and Morphological Characterization Of Pfo-Dmp:p3Ht Polymeric Blends

José Leonil Duarte¹, Flavio Franchello¹, Marco Aurélio Toledo da Silva², Fernando Junior Quites³, Edson Laureto¹, Ivan Dias¹, Teresa Dib Zambon Atvars³; ¹Universidade Estadual de Londrina, ²Universidade Tecnológica Federal do Paraná, ³Universidade Estadual de Campinas

F-P5 Immobilization Of Copolymers Into Langmuir-Blodgett Monolayer

Gabriel Cervoni Ferreira¹; ¹Universidade Federal de São Paulo

F-P6 Study Of Tco Treatment Using Uv-Ozone Reactor

Emerson Roberto Santos, José Igor Balbino de Moares, Victor Sonnenberg, Elvo Calixto Burini Junior, Roberto Koji Onmori, Wang Shu Hui

F-P7 Ac Characterization Of Pedot:pss/pva Polymer Blend and Pedot:pss/pva/zn₂Sio₄:mn Composite.

Olivia Carr, Giovani Gozzi, Lygia Walmsley, Roberto Mendonça Faria, Dante Luis Chinaglia

F-P8 Comparing The Performance Of Fluorene-Thiophene, Fluorene-Bithiophene and Fluorene-Terthiophene Copolymers In Organic Photovoltaic Devices

Cleber Fabiano Marchiori¹, Andréia Gerniski Macedo², Isabel Romero Grova¹, Marlus Koehler¹, Lucimara Stolz Roman¹, Leni Campos Akcelrud¹; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná

F-P9 Thermal Analysis Of Poly(3-Hexylthiophene), P3Ht, Prepared By Different Oxidative Polymerization Conditions

William Marcondes Facchinatto¹, Bruno Bassi Millan Torres¹, Debora Terezia Balogh¹; ¹Universidade de São Paulo

F-P10 Time Resolved Spectroscopy Studies In Polyfluorene-Bithiophene System

Paloma Lays Santos, Barbara Brenda Costa¹, Luiz Alberto Cury¹; ¹Universidade Federal de Minas Gerais

F-P11 Spherical Nanocavity Arrays Fabricated By Nanosphere Lithography For Fluorescence Enhancement

Edna Regina Spada¹, Francisco Eduardo Gontijo Guimarães¹, Gustavo Targino Valente¹, Marcelo de Assunção Pereira da Silva¹, Maria Luisa Sartorelli², Roberto Mendonça Faria¹; ¹Universidade de São Paulo, ²Universidade Federal de Santa Catarina

F-P12 The Interplay Of Electronic Structure, Orientation and Charge Transport In Organic Semiconductors: Thiophene-Based Polymers

Yunier Garcia-Basabe¹, Bruno Gabriel Alves Leite Borges², Caroline Arantes³, Lucimara Stolz Roman⁴, Maria Luiza Rocco²; ¹University Of Matanzas Camilo Cienfuegos, ²Universidade Federal do Rio de Janeiro, ³Instituto Nacional de Metrologia, Qualidade e Tecnologia, ⁴Universidade Federal do Paraná

F-P13 Enhancement Field Emission From Multi Wall Carbon Nanotube Oxidized

Cintia Macedo de Lima, João Roberto Moro, Marcos Henrique Mamoru O. Hamanaka, Vladimir Jesus Trava-Airoldi, Evaldo José Corat

F-P14 Temperature Dependence Of Thin Films Organic Field Effect Transistors Electrical Properties

Alexandre de Castro Maciel, Roberto Mendonça Faria¹; ¹Instituto de Física de São Carlos

F-P15 Oxidation Site Effects In Lapps16 and Changes Induced By Ethers Functionalization In Its Phenyl Groups

Melissa F. Siqueira Savedra¹, Carlos Eduardo Tavares de Magalhães¹, Giovana Ribeiro Ferreira¹, Márcio Marques da Silva¹, Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto

F-P16 Physical and Mechanical Characterization Of A Multilayer Composite Absorber Of Electromagnetic Radiation

Luiza de Castro Folgueras¹, Mauro Angelo Alves¹, Mirabel Cerqueira Rezende¹; ¹Instituto de Aeronáutica e Espaço

F-P17 Study Of The Kinetic Of Chloroform Diffusion Into Pmma To Produce A Preform For Polymeric Optical Fiber

Allan Caro Mercado¹, Julio Roberto Bartoli¹, José Luiz Lino Trochmann; ¹Universidade Estadual de Campinas

F-P18 White Electroluminescence Obtained By Controlling The Doping In Single Layer Devices

Jeferson Ferreira de Deus¹, Gregório Couto Faria², Eduardo T. Iamazaki³, Roberto Mendonça Faria, Teresa Dib Zambon Atvars, Leni Campos Akcelrud⁴; ¹Universidade Tecnológica Federal do Paraná, ²Universidade de São Paulo, ³Universidade Estadual de Campinas, ⁴Universidade Federal do Paraná

F-P19 Synthesis and Characterization Of Water Soluble Ruthenium Tetracarboxy Phthalocyanine

Anderson Orzari Ribeiro¹, Francisco Batista do Nascimento¹; ¹Universidade Federal do ABC

F-P20 Study Of Pedot:pss/pva Polymer Blend Thin Films

Olivia Carr¹, Giovanni Gozzi¹, Dante Luis Chinaglia¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

F-P21 Luminescent Signature Of Thin Films Meh-Ppv: Photophysical Aspects

Henrique Santiago de Camargo¹, Tatiana Duque Martins¹; ¹Universidade Federal de Goiás

F-P22 Light-Induced ESR Study Of Charge Transfer In Cyanide Dye/meh-Ppv For Organic Photovoltaics

Marcus Vinícius Gonçalves Vismara, Carlos F. O. Graeff

F-P23 Optical Characterization Of Rare Earth Doped Lapps Polymer Film.

Erick Piovesan, João Paulo Silva Leite, Denis Augusto Turchetti, Leni Campos Akcelrud, Alexandre Marletta

F-P24 Effects From The Solvent and Matrices On The Energy Transfer And/or Diffusion Of Excited Carriers In Polymer Blends

Paulo Alliprandini Filho^{1,2}, Durval Bertoldo Menezes³, José Roberto Tozoni⁴, Leni Campos Akcelrud⁵, Alexandre Marletta⁴, Osvaldo Novais Oliveira Jr.^{1,2}; ¹Universidade de São Paulo, ²Instituto de Física de São Carlos, ³Instituto Federal de Educação, Ciência e Tecnologia do Triângulo Mineiro, ⁴Universidade Federal de Uberlândia, ⁵Universidade Federal do Paraná

F-P25 The Consequence Of The Aggregated States In The Energy Transfer Effect

Bárbara Brenda de Almeida Costa, Paloma Lays Santos, Luiz Alberto Cury

F-P26 Hybrid Polyaniline/tio₂ Films Obtained By Casting Technique For Egfet Devices.

Julio Cesar Ugucioni¹, Natalia Biziak de Figueiredo¹, Marcelo Mulato¹; ¹Universidade de São Paulo

F-P27 Electrospraying For Obtaining Polyaniline/tio₂ Films.

Julio Cesar Ugucioni¹, Natalia Biziak de Figueiredo¹, Marcelo Mulato¹; ¹Universidade de São Paulo

F-P28 All Organic Vertical Transistor With Current Gain

Ana Carolina Batista Tavares¹, José Pedro Mansueto Serbena¹, Ivo Alexandre Hummelgen¹, Michelle Sostag Meruvia²; ¹Universidade Federal do Paraná, ²Pontifícia Universidade Católica do Paraná

F-P29 Pm-Irras Studies Of Pf/nbr Langmuir-Blodgett Films

Camila Gouveia Barbosa¹, Roselena Faez^{2,1}, Laura Oliveira Péres Philadelphi¹, Luciano Caseli¹; ¹Universidade Federal de São Paulo, ²Universidade Federal de São Carlos

F-P30 Mis Capacitor Prepared By Cutspc Films Printed Onto Flexible Anodic Al₂O₃

Tiago Carneiro Gomes, Rafael Furlan de Oliveira, Carlos José Leopoldo Constantino, Neri Alves

F-P31 Pressure Sensors Based On Carbon Spheres Dispersed In A Poly(Vinyl)Alcohol Matrix.

Rafael Rodrigues, Ivo Alexandre Hummelgen¹; ¹Universidade Federal do Paraná

F-P32 Optical Probing Of Extremely Thin Light Emitting Polymer Films

Francineide Lopes Araújo¹, Francisco Eduardo Gontijo Guimarães¹; ¹Instituto de Física de São Carlos

F-P33 Hybrid Conjugated Polymer/semiconductor: Probing Charge Separation At Interface Between Gaas Nanowires and Extremely Thin Light Emitting Polymer Film

Raphael Antonio Caface¹, Yuri Pussep¹, Francisco Eduardo Gontijo Guimarães¹; ¹Universidade de São Paulo

F-P34 Nonlinear Interface Spectroscopy Applied To The Study Of Electronic Polymeric Devices

Silvia Genaro Motti¹, Paulo Barbeitas Miranda¹, Alexandre de Castro Maciel¹, Roberto Mendonça Faria¹; ¹Universidade de São Paulo

F-P35 Langmuir Films Of Poly(3-Hexylthiophene) and Thiol-Capped Gold Nanoparticles – Application Of In Situ Techniques To Explore Their Compatibility.

Rafaela Cristina Sanfelice¹, Vanessa Cristina Gonçalves², Debora Terezia Balogh¹; ¹Universidade de São Paulo, ²Instituto Federal de Educação, Ciência e Tecnologia de São Paulo

F-P36 Rewritable Flexible Memories Of Graphene Oxide By Spray Deposition

Lucas Moreno Mouta, Bruno Bassi Millan Torres¹, Alexandre de Castro Maciel, Debora Terezia Balogh, Roberto Mendonça Faria; ¹Instituto de Física de São Carlos

F-P37 Electro Synthesized Polypirrole As The Basis For Amperometric Biosensors

Dafne Pires Pinto¹, Robson Pacheco Pereira², Ana Maria Rocco¹; ¹Universidade Federal do Rio de Janeiro, ²Universidade Federal Fluminense

F-P38 Determination Of Relaxation Temperature Of Polymer Blends, Using Polymeric Luminescent Probe.

Durval Bertoldo Menezes, José Roberto Tozoni, Leni Campos Akcelrud, Alexandre Marletta

F-P39 Study Of Poly (3,4-Ethylenedioxythiophene) (Pedot) Films For Glucose Recognition

Dafne Pires Pinto¹, Natália Colonese Fernandes¹, Robson Pacheco Pereira, Ana Maria Rocco; ¹Universidade Federal do Rio de Janeiro

F-P40 Study Of Poly (3,4-Ethylenedioxythiophene) (Pedot) Films For Glucose Recognition

Dafne Pires Pinto¹, Natália Colonese Fernandes¹, Robson Pacheco Pereira, Ana Maria Rocco; ¹Universidade Federal do Rio de Janeiro

F-P41 A Comparative Study Of Top and Bottom-Gated Miscapacitors Based On P3Ht/psq Thin Films

Gabriel Leonardo Nogueira¹, Rafael Furlan de Oliveira, Neri Alves; ¹Fct-Unesp Campus de Presidente Prudente

F-P42 Comparative Study Of Poly (P-Phenylene Vinylene) Derivative Films Produced By Langmuir-Blodgett Technique and Characterized By Fluorescence Spectroscopy

Andrei Sakai¹, Laura Oliveira Péres Philadelphi¹, Luciano Caseli¹; ¹Universidade Federal de São Paulo

F-P43 A Dedicated Organic Paper Based Device For Quality Assurance In Dosimetry For Food Radiation

Franceline Aparecida Lopes¹, Marcella Rocha Franco¹, Thiago Schimithberger², Luiz Oliveira de Faria³, Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Minas Gerais, ³Centro de Desenvolvimento da Tecnologia Nuclear

F-P44 Franck-Condon Analysis: An Approach To Probe Thermal Activated Process and Conjugation Length In Stretched Polyfluorene Thin Films

Rafael Henriques Longaresi¹, Alexandre Marletta², Roberto Mendonça Faria¹; ¹Instituto de Física de São Carlos, ²Universidade Federal de Uberlândia

F-P45 Temperature-Enhanced Synthesis Of Dmso-Melanin

Erika Soares Bronze-Uhle¹, Marina Piacenti da Silva, João Vitor Paulin, Carlos F. O. Graeff¹; ¹Departamento de Física - Faculdade de Ciências - Unesp/bauru

F-P46 Photodegradation Evaluation Of Polyethylene Waxes Used In Thermal Sensor

Jessica Kimie Akishino^{1,2}, Guilherme Cunha Silva², Dailton Pereira Cerqueira³, Vitoldo Swinka Filho^{1,2}, Marilda Munaro²; ¹Universidade Federal do Paraná, ²Instituto de Tecnologia Para O Desenvolvimento, ³Companhia de Eletricidade do Estado da Bahia

F-P47 Development Of Roll-To-Roll Coating Prototype For Organic Electronic Series Production Studies

Leonardo Dias Cagnani¹, Giovanni Gozzi, Bruno Bassi Millan Torres¹, Pedro Henrique Pereira Rebello, Roberto Mendonça Faria; ¹Instituto de Física de São Carlos

F-P48 Synthesis and Optimization Of Poly-O-Phenylenediamine (Popd) For Application In Electrochemical Capacitors

Mayara Camila Duarte de Oliveira¹, Tatiane Moraes Arantes², Juliana Cespedes¹, Neidenei Gomes Ferreira², Fernando Henrique Cristovan¹; ¹Universidade Federal de São Paulo, ²Instituto Nacional de Pesquisas Espaciais

F-P49 Edmr Phase Analysis By Drift-Diffusion Approach

Augusto Batagin Neto¹, Peter Arnold Bobbert², Carlos F. O. Graeff³; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ²Eindhoven University Of Technology / Technische Universiteit Eindhoven, ³Departamento de Física - Faculdade de Ciências - Unesp/bauru

F-P50 Poly(3-Dodecylthiophene)/graphene Nanoplatelets Nanocomposites To Solar Cell

Hállen Daniel Rezende Calado¹, Marcos Roberto de Abreu Alves¹, Helio Ribeiro¹, Luiz Alberto Cury¹, Glaura Goulart Silva¹; ¹Universidade Federal de Minas Gerais

F-P51 Morphology Study Of Organic Solar Cells Built With Fullerene and Psif-Dbt

Nicholas Ercolano Monteiro¹, Andréia Gerniski Macedo², Cleber Fabiano Marchiori¹, Lucimara Stolz Roman¹; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná

F-P52 Oleds From [Zn(II)Salophen(H₂O)] Coordination Compounds As Guest On Polymer Matrix

José Carlos Germino¹, Anderson Martinez Santana², Romildo Jeronimo Ramos², Natasha Maiara de Souza Pereira², Fernando Josepetti Fonseca³, Gerson dos Santos³, Teresa Dib Zambon Atvars¹; ¹Universidade Estadual de Campinas, ²Universidade Federal de Mato Grosso, ³Escola Politécnica de Universidade de São Paulo

F-P53 Analysis Of Static and Dynamic Behavior Of The Electromagnetic Properties Of Sbr Loaded With Carbon Nanoparticules

Samuel Machado Leal da Silva¹, Mirabel Cerqueira Rezende², Alberto José de Faro Orlando³, Simone Souza Pinto³; ¹Centro de Instrução de Guerra Eletrônica, ²Instituto de Aeronáutica e Espaço, ³Instituto Tecnológico de Aeronáutica

F-P54 Carbon Nanotube/polyaniline Nanocomposites Applied As Gas Sensor Device.

Marcelo Eising¹, Rodrigo Villegas Salvatierra¹, Aldo J.g. Zarbin¹, Carlos Eduardo Cava², Lucimara Stolz Roman¹; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná

F-P55 Study and Development Of Electroluminescent Hybrid Devices With Dielectric Layer

Alisson Henrique Ferreira Marques, Giovanni Gozzi, Dante Luis Chinaglia¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

F-P56 Study Of Percolation In P3Ht:pcbm Blend Based On A Random Resistor Network

Haroldo Naoyuki Nagashima¹, Lilian Soares Cardoso²; ¹Faculdade de Engenharia Campus de Ilha Solteira, ²Instituto de Física de São Carlos

F-P57 Spray Films Of Europium Complexes As An Alternative Approach For Application As Light Conversion Devices

Sabrina Aléssio Camacho¹, Pedro Henrique Benites Aoki¹, Ana Maria Pires¹, Carlos José Leopoldo Constantino¹; ¹Universidade Estadual Paulista

F-P58 Study Materials On Field Effect Transistors Ferroelectric

Daiane Miron Souza¹, Silésia de Fátima Curcino da Silva¹, Alexandre Marletta¹; ¹Universidade Federal de Uberlândia

F-P59 Thin Films Of Dodab/nickel Phthalocyanine Applied In Sensing Experiments

Leonardo Negri Furini, Eloi Feitosa, Priscila Alessio Constantino, Milton Shimabukuro, Antonio Riul Jr., Carlos José Leopoldo Constantino

F-P60 Analysis Of Field Effect Mobility In Rr-P3Ht and Pcbm Based Ofets As Function Of Annealing Temperature Of The Active Layer

Lilian Soares Cardoso¹, Alexandre de Castro Maciel¹, Roberto Mendonça Faria¹; ¹Universidade de São Paulo

F-P61 Immobilization Of Enzyme β -Galactosidase By Lbl Technique and Amperometric Detection Of Lactose

Paula Pereira Campos¹, Marystela Ferreira¹, Marli Leite de Moraes²; ¹Universidade Federal de São Carlos/campus Sorocaba, ²Universidade Estadual Paulista Júlio de Mesquita Filho

F-P62 Static and Dynamic Characterization Of Layer-By-Layer Films Applied In A Microfluidic System

Antonio Riul Jr., Cristiane Margarete Daikuzono, Cleber Aparecido Rocha Dantas, Diogo Volpati, Maria Helena Piazzetta, Angelo Gobbi, Carlos José Leopoldo Constantino

F-P63 Preparation Of Conducting Ferrocene-Carbon Nanocomposites

Nelcy D. S. Mohallem¹, Edélio Danguillecourt², Y Mosqueda³, E Perez Cappe³; ¹Universidade Federal de Minas Gerais, ²Institute Superior Mining Metallurgic, ³Institute Of Materials Science and Technology

F-P64 Controlling The Kinetics Of Photo-Oxidation Processes Of Ppv Derivatives: Application In Radiation Sensors

Giovana Ribeiro Ferreira, Rodrigo Fernando Bianchi, Eduardo Ribeiro de Azevedo

F-P65 Correlation Of Mechanical and Electrical Properties Of Pani Thin Films

Alisson de Jesus Santana¹, Itamar Vieira de Sousa Junior, Ángel Alberto Hidalgo¹; ¹Universidade Federal do Piauí

F-P66 Electrochemical Sensor For Detection Of Heavy Metal Using Lb Films Composed of Conduction Polymer and Clay

Anerise de Barros¹, Mariselma Ferreira², Marystela Ferreira³; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho", ²Universidade Federal do ABC, ³Universidade Federal de São Carlos/campus Sorocaba

F-P67 Electrochemical Properties Of Graphene Oxide Multilayers

Amanda Costa Santos¹, Marcos Andriola Gross², Leonardo Giordano Paterno²; ¹Universidade de Brasília, ²Universidade de Brasília

F-P68 Study Of Electron Properties Of Polyaniline By Electron Paramagnetic Resonance

Afonso Portilho Almeida Brito Salazar, George Barbosa da Silva, Gilberto Campos Fuzari Junior

F-P69 Monitoring Metilisorborneol and Geosmin In Water Reservoir Using An Electronic Tongue System

Guilherme de Souza Braga^{1,2}, Fernando Josepetti Fonseca¹, Luiz Capparelli Mattoso²; ¹Escola Politécnica de Universidade de São Paulo, ²Embrapa Instrumentação

F-P70 Polyaniline-Ito Nanocomposite: Electrical Characterization and Modeling

Gislayne Elisana Gonçalves^{1,2}, Haroldo Naoyuki Nagashima³, Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto, ²Instituto Federal de Minas Gerais - Campus Ouro Preto, ³Universidade Estadual Paulista

F-P71 Distribution Of Conjugated Segments For A Polymer Melt In A Cubic Lattice Model

Joniel Alves dos Santos¹, José Arruda Freire¹; ¹Universidade Federal do Paraná

F-P72 Glass/ito/pani-Electrode Response For Different Ph Values

José Alejandro Somoza, José Enrique Eirez, Eduardo Martin Rodriguez, Sonnia Pavoni, Fernando Josepetti Fonseca

F-P73 Light and Temperature – Dependent Photoluminescence Of Meh-Ppv:alq₃ Blends.

Mariana de Melo Silva¹, Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto

F-P74 Adsorption Kinetics and Multilayer Formation Of Nickel Phthalocyanine Ultra-Thin Films

Alan Rocha Baggio¹, Leonardo Giordano Paterno, Heibbe Cristhian Benedito de Oliveira; ¹Universidade de Brasília

F-P75 Stability Study Of Paper-Based Capacitors Prepared By Inkjet Printed Pani

Maykel Santos Klem¹, Aline Santos, Tiago Carneiro Gomes, Rafael Furlan de Oliveira, Neri Alves; ¹Universidade Estadual Paulista

F-P76 Superconducting Ag Sheathed Bi-2212 Wires Prepared With Nanoparticulated Calcium Compounds

Natasha Andréia Nogueira¹, Dayse Iara dos Santos¹, Anne Hitomi Yonamine¹, J. H. Kim², K. Konstantinov², Shixue Dou²; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ²University Of Wollongong

F-P77 Electrical and Thermal Properties Of Light Emitting Electrochemical Cells

Washington da Silva Sousa¹, Roberto Mendonça Faria¹; ¹Instituto de Física de São Carlos

F-P78 Quantitative Investigation Of Photonic Sensors For Radiation Therapy

Andrea Gomes Campos Bianchi¹, Frederico Mota Chaves¹, Rodrigo Fernando Bianchi¹, Thiago Schimitberger², Giovana Ribeiro Ferreira¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Minas Gerais

F-P79 Investigation Of Cutspc Films Printed Onto Paper For Application In Sensors

Tiago Carneiro Gomes¹, Clarissa Olivati¹, Carlos José Leopoldo Constantino¹, Neri Alves¹; ¹Universidade Estadual Paulista

F-P80 Organic Solar Cells Based On Water-Soluble Iron and Nickel Tetrasulfonated Phthalocyanines/C₆₀

Marcos Vinicius Costa e Silva¹, Tomás Nogueira Ribeiro², Bruna Chagas Melo², Bruna Postacchini, Marco Cremona^{1,3}, Rogerio Valaski¹, Thiago Cazati²; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Universidade Federal de Ouro Preto, ³Pontificia Universidade Católica-Rio

F-P81 The Current-Voltage Characteristics Of Polymer/c₆₀ Diodes In The Dark: A Direct Procedure To Infer The Open Circuit Voltage In Photovoltaic Devices

Marlus Koehler, Natasha A. D. Yamamoto, Deize Corradi Grodniski¹, Andréia Gerniski Macedo, Lucimara Stolz Roman, Marcos Gomes Eleutério da Luz; ¹Universidade Federal do Paraná

F-P82 Polyether Siloxane/cloisite 20A For Control Release Of Sodium Diclofenac

Celso Ricardo Nogueira Jesus¹, Celso Valentim Santilli¹, Sandra Helena Pulcinelli¹; ¹Instituto de Química Unesp Araraquara

F-P83 Incorporation Of Ppv In Organophilic Montmorillonite

Cecilia Gonçalves Soares, Roselena Faez, Jarem Garcia, Luciano Caseli, Laura Oliveira Péres Philadelphia¹; ¹Universidade Federal de São Paulo

F-P84 Metal Detection Using Poly(Allylamine Hydrochloride) and Natural Polysaccharides

Marcela Félix Chaves Ferreira, Silésia de Fátima Curcino da Silva, Mauricio Foschini, Alexandre Marletta¹; ¹Universidade Federal de Uberlândia

F-P85 Electrical Characterization Of Pedot/pss Circuit Paths Printed With An Office Laser Printer

Alex do Nascimento Ribeiro¹, Geraldo Benício Magela¹, Stefan Blawid¹; ¹Universidade de Brasília

F-P86 Bilayer Organic Solar Cells Based On Plastic Substrates

Lucas Ferreira Lima, Natasha Ariane Diniz Yamamoto, Rogério Valaski, Vanessa Luz e Calil, Andréia Gerniski Macedo, Marco Cremona, Lucimara Stolz Roman

F-P87 Thickness Effect On The Morphology and Capacitance Of Electropolymerized Polyaniline Films

Luana Lacy Mattos¹, Lucas Natálio Chavero¹, Maria Luisa Sartorelli¹, Françoise Toledo Reis¹; ¹Universidade Federal de Santa Catarina

F-P88 Dft Study Of The Electronic Structure Of Polymer-On-Metal Interfaces

José Maximiano F. Pinheiro, Marília J. Caldas

F-P89 Influence Of Active Layer Deposition Parameters By Inkjet Printing On The Performance Of Printed Ofets

Josiani Cristina Stefanelo¹, Bruno Bassi Millan Torres², Alexandre de Castro Maciel¹, Roberto Mendonça Faria¹; ¹Instituto de Física de São Carlos - Usp, ²Instituto de Física de São Carlos

F-P90 Substrate Research For Solid State Lighting

Elvo Calixto Burini Junior, Emerson Roberto Santos

F-P91 Study Of The Growth Of Thin Films Of Poly (O-Methoxyaniline) From The Deposition Technique In-Situ

Gleicekelly Silva Coelho¹, Aline Gomes de Oliveira Paranhos¹, Silmar Antonio Travain¹; ¹Universidade Federal de Ouro Preto

F-P92 Electrical and Morphological Characterization Of Humic Films On Glass and Polyester Substrates

Artemis Marti Ceschin, Juliano Vieira Gregório, Henrique Orefice, Lucas Ma, Raisal Vasconcelos, Karen Almeida, Nizamara Seminremis Pereira

F-P93 Langmuir-Blodgett Films and Uv-Visible Absorption Of Regioregular Poly(3-Butylthiophene) and Poly(3-Hexylthiophene)

Edilene Assunção da Silva, Vinicís Jessé Rodrigues de Oliveira, Priscila Alessio Constantino, Clarissa Olivati

F-P94 Energy Transfer Processes In Donor-acceptor Poly(Fluorenevinylene-Alt-4,7-Dithienyl-2,1,3-Benzothiadiazole)

Paula C. Rodrigues¹, Eralci M. Therézio, José Roberto Tozoni, Alexandre Marletta², Leni Campos Akcelrud; ¹Universidade Tecnológica Federal do Paraná, ²Universidade Federal de Uberlândia

F-P95 Graphene Nanosheets Films Deposited By The Dynamic Layer-By-Layer Technique

Daniela Branco Tavares Mascagni^{1,2}, Celina Massumi Miyazaki^{1,2}, Cristiane Margarete Daikuzono³, Antonio Riul Jr.⁴; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ²Universidade Federal de São Carlos - Campus Sorocaba, ³Instituto de Física de São Carlos, ⁴Universidade Estadual de Campinas

F-P96 Photophysics and Phase Transitions In Poly[9,9-Dioctylfluorenyl-2,7-Diyl)-Co-1,4-Benzo-{2,1'-3}-Thiadiazole)] (F8Bt) Thin Films Using Fluorescence Techniques

Raquel Aparecida Domingues, Teresa Dib Zambon Atvars

F-P97 Electronic Localization In Organic Conjugated Polymers

Rodrigo Ramos da Silva¹, Marília J. Caldas; ¹Instituto de Física da Universidade de São Paulo

F-P98 Galactomannan, Glycerol and Magnetic Nanoparticles Composites For Biotechnological Applications

Natália Dantas Gomes de Souza¹, Eduardo José Juca Mallmann, Rafael Melo Freire, Elayne Valério Carvalho, Denis Valony Martins, Victor Moreira da Costa, Manuela Chaves Loureiro Cândido, Pierre Basílio Almeida Fechine; ¹Universidade Federal do Ceará

F-P99 The Influence Of The Deposition Method In The Electrochemical Behavior Of A Copolymer Of Poly(Aniline)

Leonardo Teixeira Silveira¹, Luciano Caseli, Susana Ines Cordoba de Torresi², Fernanda Ferraz Camilo; ¹Universidade Federal de São Paulo, ²Universidade de São Paulo

F-P100 Vibrational Properties Of Benzoxazole Derivatives

Louise Patron Etcheverry¹, Fabiano Severo Rodembusch², Rodrigo Martins Alves, Eduardo Ceretta Moreira; ¹Fundação Universidade Federal do Pampa, ²Universidade Federal do Rio Grande do Sul

F-P101 Preparation Of Biodegradable Systems From Semiconducting Polymers Of Poma and Poaa

Gleicekelly Silva Coelho^{1,2}, Bruno Elias Pereira Nogueira da Gama, Marcelo de Assunção Pereira da Silva, Silmar Antonio Travain; ¹Universidade Federal de Ouro Preto, ²Instituto de Física de São Carlos - Usp

PROGRAM

F-P102 Temperature Effects On Schiff Base: 5-(4-Decyloxy-Phenyl)-[1,3,4]Thiadiazol-2-Ylamine Crystals

Thiago Andrade de Toledo¹, Paulo Sergio Pizani¹, Luiz Everson da Silva²; ¹Universidade Federal de São Carlos, ²Universidade Federal do Paraná

F-P103 Optimal Hartree-Fock Exact Exchange Fraction To Describe Small Organic Oligomers

Evandro Tadeu Rocha¹, José Maximiano F. Pinheiro¹, Marília J. Caldas¹; ¹Instituto de Física, Universidade de São Paulo

F-P104 Electrical Properties Of P3Ht:pcbm Thin Films Used As Active Layers In Organic Photovoltaics

Douglas José Coutinho¹, Rafael Henrique Longaresi, Roberto Mendonça Faria; ¹Instituto de Física de São Carlos

F-P105 Enhancing Pedot:pss Conductivity By Blending With Ethylene Glycol and Dimethyl Sulfoxide

Gregório Couto Faria, Juliana Garcez de Oliveira¹; ¹Instituto de Física de São Carlos

F-P106 The Influence Of Thermodynamic and Kinetic Factors On The Organization Of P3Ht Chains and On The Efficiency Of P3Ht/pcbm Solar Cells

Lílian de Oliveira de Antoni¹, Marcos Jose Leite Santos¹, Rafael Mello Lattuada¹; ¹Universidade Federal do Rio Grande do Sul

F-P107 Ab Initio Investigation Of Energetic, Structural and Electronic Properties Of Self-Assembled Monolayers On The Si(100) (2X1):h

Regina Lélis de Sousa¹, Alana Cruz de Sousa¹; ¹Fundação Universidade Federal do Tocantins

F-P108 Degradation Of The Active Layer Of Meh-Ppv Semiconductor Devices and The Use Of A Natural Product As Retardant

Angel A Hidalgo, Adriano Santana Soares, Cleânio da Luz Lima, Maria Aleksandra Sousa Rios

SYMPOSIUM G

Molecular Modeling
Materials Science

ORAL SESSIONS

* Invited Lecture

TUESDAY, OCTOBER 01

SESSION OS7-8 (15:00 - 16:20)
ROOM: 8**15:00 G-O1*****Molecular Simulation In Material Sciences**

Léo Degreve¹; ¹Faculdade de Filosofia Ciências e Letras de Riberião Preto

15:40 G-O2**Molecular Dynamics Simulations Of The Mechanical Behavior Of Silica Nanostructures In Gpu-Based Computational Environments**

Lilian P. Dávila, Benjamin N. Doblack

16:00 G-O3**Prediction Of The Solute Concentration Of Fe-C Alloys In Solidification Process In Undercooled Melts**

Ever Grisol de Melo¹, Alexandre Furtado Ferreira¹, Ivaldo Leão Ferreira¹; ¹Universidade Federal Fluminense

WEDNESDAY, OCTOBER 02

SESSION OS9-8 (09:30 - 10:30)
ROOM: 8**09:30 G-O4*****Generator Coordinate Gaussian Basis Sets: An Excellent Alternative For The Pople's and Dunning's Basis Sets**

Alberico Borges Ferreira da Silva¹; ¹Universidade de São Paulo

10:10 G-O5**Metal Coordination Study In Crown Thioethers Through Dft Calculations and Hyperfine Parameters**

Rafael Rodrigues do Nascimento¹, Filipe Camargo Dalmatti Alves de Lima¹, Marcos Brown Gonçalves¹, Leonardo A. Errico², Helena Maria Petrilli¹; ¹Universidade de São Paulo, ²Universidad Nacional de La Plata

SESSION OS10-8 (10:50 - 12:30)
ROOM: 8**10:50 G-O6*****The Study Of Pd-Catalyzed C-C Cross-Coupling Reaction By Computational Chemistry**Ataualpa Albert Carmo Braga¹; ¹Instituto de Química da Universidade de São Paulo**11:30 G-O7*****Evaluating Dyes For Technological Appliances**Paula Homem-De-Mello¹, Fernanda Bettanin, Edison Franco Junior, Érica de Liandra-Salvador; ¹Universidade Federal do Abc**12:10 G-O8****Effects Of Silica Nanoparticles On The Ion Distribution Within Clays From Nano To Micro Scale: Going Beyond Molecular Dynamics**Vladivostok Suxo Mamani¹, Lucas Stori de Lara¹, Caetano R. Miranda¹; ¹Universidade Federal do Abc**SESSION OS11-8 (15:00 - 16:20)**
ROOM: 8**15:00 G-O9*****Reactive Extrusion Of Polymers: Simultaneous Process Of depolymerization and Polymerization**Antonio Jose Felix Carvalho¹; ¹Universidade de São Paulo**15:40 G-O10*****Experimental and Modelling Studies Of Excess Properties: An Overview Of Excess Molar Volume Of Binary Liquid Mixtures**Ricardo B. Torres¹; ¹Centro Universitário da Fundação Educacional Inaciana Pe Sabóia de Medeiros**THURSDAY, OCTOBER 03****SESSION OS13-8 (09:30 - 10:50)**
ROOM: 8**09:30 G-O11****Theoretical Investigation On The Metal Deposition**Leandro Moreira de Campos Pinto^{1,2}, Wolfgang Schmickler²; ¹Faculdade de Ciências - Unesp Bauru, ²Institute Of Theoretical Chemistry Universität Ulm**09:50 G-O12****Molecular Dynamics Simulations Of Alkylbenzenes Langmuir Films At The Diiodomethane-Vacuum Interface**Kalil Bernardino¹, André Farias de Moura¹; ¹Universidade Federal de São Carlos - Campus: São Carlos**10:10 G-O13*****When Simulation Can Help (Sometimes Substitute) Experiment. A Quantum-Mechanical Approach To The Properties Of Materials**Dovesi Roberto¹; ¹Università Di Torino**POSTER SESSION****WEDNESDAY, OCTOBER 02****SESSION PS3 (16:40 - 18:00)**
ROOM: Poster Session**G-P1 Theoretical Study Of The Metallic Core Of The Molecular Pentafoil Knot (M = Fe, Co, Ni, Cu, and Zn)**Nelson H Morgon¹, Aguinaldo Robinson de Souza²; ¹Universidade Estadual de Campinas, ²Universidade Estadual Paulista Júlio de Mesquita Filho**G-P2 The Study Of Elastic Properties Of NdAl₂ Using Fplapw Calculation**Carlos Alberto Soufen, Momotaro Imaizumi, Marcelo Capella de Campos, Carlos Alberto Fonzar Pintão**G-P3 The Study Of Magnetic Properties Of Fe₂Sm Using Ab- Initio Calculation**Momotaro Imaizumi, Carlos Alberto Soufen, Marcelo Capella de Campos, Carlos Alberto Fonzar Pintão**G-P4 Theoretical Study Of The Mechanism For The Palladium Catalysed Fujiwara Hydroheteroarylation Of Alkynes**Nelson H Morgon¹; ¹Universidade Estadual de Campinas**G-P5 Can Organic Ions Dissolve Fullerenes?**Eudes Eterno Fileti¹, Cleiton Domingos Maciel², Vitaly Chaban; ¹Universidade Federal de São Paulo, ²Universidade Federal do Abc**G-P6 Theoretical Study Of Structural and Electronic Properties Of Ba(Zr_{0.75}Ti_{0.25})O₃ Powders**José Waldo Martínez Espinosa, Laécio Santos Cavalcante, Nougá Cardoso Batista, Badapanda Tanmaya, Valmor Roberto Mastelaro, Elson Longo, Maria Fernanda do Carmo Gurgel**G-P7 Optimization and Updating Of Selcon Program For Secondary Structure Content Estimative From Circular Dichroism Spectra Of Biomaterials**Juliana Pastor¹, Helton Bísaro¹, Patricia Targon Campana¹; ¹Universidade de São Paulo**G-P8 Theoretical Study Of Imogolite Nanotubes Functionalized With Phosponic and Ethylphosponic Acids**Luciana Guimaraes¹, Clebio Soares Nascimento Jr.¹, Daniela Ribeiro Silva¹; ¹Universidade Federal de São João Del Rei**G-P9 Core-Valence Gaussian Basis Sets Of Double and Triple Zeta Quality For Li To Ar. Applications In Calculations Of Indirect Nuclear Spin-Spin Coupling Constants**Maycon Sérgio Gomes, Ricardo Abreu Toríbio, Paulo José Pereira de Oliveira, José Maria Pires

G-P10 Theoretical Study Of α and β -Cyclodextrins Molecular Nanotubes

Clebio Soares Nascimento Jr.¹, Luciana Guimaraes¹, Daniela Narcisa Ferreira Bonsolhos¹; ¹Universidade Federal de São João Del Rei

G-P11 Electronic Properties and Conformational Analysis Of $C_x(Bn_y)$ Nanotubes

Thiago Augusto de Souza¹, Ana Claudia Monteiro Carvalho¹; ¹Universidade Federal de Itajubá

G-P12 The Self-Assembling Of Capped Nanoparticles Studied By Means Of Molecular Dynamics Simulations

André Farias de Moura¹, Cleocir José Dalmaschio, Edson Roberto Leite, Nicholas A. Kotov²; ¹Universidade Federal de São Carlos, ²University Of Michigan

G-P13 Ground and Excited State Theoretical Study Of Chalcogenol Esters

Josene Maria Toldo¹, Rodrigo Rosseti Descalzo¹, Paulo Fernando Bruno Gonçalves¹, Daniel da Silveira Rampon¹, Fabiano da Silveira Santos¹, Paulo Henrique Schneider¹, Fabiano Severo Rodembusch¹; ¹Universidade Federal do Rio Grande do Sul

G-P14 Hydrogen Bonding Of N-Methylformamide With Acetone.

Glauco Garrido Almeida, João Marques Cordeiro

G-P15 Atomistic Simulations Of Metallic Glass Nanoparticles Upon High Velocity Impact

Javier Wachter, Gonzalo Gutierrez, Alejandro Zuniga

G-P16 Theoretical, Dft, and Experimental, Cd, Study Ofphenylbutazone and Human Serum Albumin Interactions

Aguinaldo Robinson de Souza, Valdecir Farias Ximenes

G-P17 Molecular Modelling Of Cutine Derivative Biopolymers

Miguel Angel San-Miguel, Jaime Oviedo¹, José Alejandro Heredia-Guerrero², Antonio Heredia³, José Jesús Benítez²; ¹Universidad de Sevilla, ²Instituto de Ciencia de Materiales de Sevilla, ³Universidad de Málaga

G-P18 Magnetic Order In The Iron Borate $Fe_3O_2Bo_3$

Maria Matos¹, Joice Terra², Donald E. Ellis³; ¹Pontificia Universidade Católica do Rio de Janeiro, ²Centro Brasileiro de Pesquisas Físicas, ³Northwestern University

G-P19 Relativistic Hartree-Fock For Au_N (With $1 \leq n \leq 5$) Nanowires

André Luiz Fassone Canova¹, Aguinaldo Robinson de Souza²; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ²Departamento de Química - Faculdade de Ciências - Unesp/bauru

G-P20 Au_N and AuO_N (With $1 \leq n \leq 2$), Relativistic Hartree-Fock

André Luiz Fassone Canova¹, Aguinaldo Robinson de Souza²; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru, ²Departamento de Química - Faculdade de Ciências - Unesp/bauru

G-P21 Effects Of Oxygen and Tin Vacancy In The Electronic Properties Of $Casno_3$: A Dft Study

Jefferson Maul, Mary Cristina F Alves, Anderson Reis Albuquerque, Prescila Glaucia Christianini Buzolin, Elson Longo, Iêda Maria Garcia Santos¹, Julio Ricardo Sambrano; ¹Universidade Federal da Paraíba

G-P22 Density Functional Study Of Vacancies In Wurtzite Gan

Aguinaldo Robinson de Souza, Carmen Regina Souza

G-P23 Opto-Electronic Properties Of Encapsulated Fullerenols

Eudes Eterno Fileti¹, Carlos Eduardo Silva¹; ¹Universidade Federal de São Paulo

G-P24 Theoretical Investigation Of The Structural and Electronic Properties Of $Batio_3$ and $Fetio_3$

Renan Augusto Ribeiro¹, Sergio Ricardo de Lazaro¹, Luis Henrique Lacerda¹; ¹Universidade Estadual de Ponta Grossa

G-P25 On The Topological Instability Model and Metallic Glass Formation By Means Of Molecular Dynamics

Marcelo Falcão de Oliveira¹, Giorgos A. Evangelakis²; ¹Universidade de São Paulo, ²University Of Ioannina

G-P26 Molecular Electronics and Nonodevices.

Sergio Selma Santos¹, Nestor Santos Correia¹; ¹Universidade Estadual de Santa Cruz

G-P27 Modeling Nanocrystalline Materials With Molecular Dynamics

Roberto Gomes de Aguiar Veiga¹, Hélio Goldenstein¹; ¹Universidade de São Paulo

G-P28 Endocrine Disruptors Interacting With Graphene: A Theoretical Approach

Iuri Jauris¹, Fernando Machado, Solange Binotto Fagan, Ivana Zanella da Silva; ¹Centro Universitário Franciscano

G-P29 First-Principles Molecular Dynamics Simulations Of Liquid Acetonitrile

Cleidineia Cavalcante Costa¹, Ronaldo Júnio Campos Batista, Taíse Matte Manhadosco¹, Alan Barros Oliveira¹, Rafael Freitas Dias¹; ¹Universidade Federal de Ouro Preto

G-P30 Theoretical Investigation Of Crystalline Structure Of The $Batio_3$ Material Doped With Zn

Luis Henrique Lacerda¹, Sergio Ricardo de Lazaro¹, Renan Augusto Ribeiro¹; ¹Universidade Estadual de Ponta Grossa

G-P31 Basis Set With Core-Valence Relativistic Correction For Elements Of The Third Row (K-Kr). Applications In Calculations Of Molecular Properties.

Luiz Fernando da Silva Cordeiro, Alceu Johann Louven Junger Delôgo, Douglas Emanuel Vargas Costa, Carlos Paulino Agrizzi, Renan Silva Bassini, Eduardo João Renzelman Goese, Maycon Sérgio Gomes¹, Paulo José Pereira de Oliveira¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo

G-P32 Orthorhombic Casno₃ (001) Surfaces: Electronic and Structural Properties By First-Principles Calculations

Prescila Glaucia Christianini Buzolin¹, Jefferson Maul², Anderson Reis Albuquerque², Elson Longo³, Julio Ricardo Sambrano¹; ¹Faculdade de Ciências - Unesp Bauru, ²Universidade Federal da Paraíba, ³Instituto de Química de Araraquara - Unesp

G-P33 The Calculations On Dft Multilayer Carbon Nanotubes Doped With (So₂)

Vicente Agustín Atoche Espinoza, Javier Gomez Romero, Neel de La Cruz Centeno, Gustavo Samuel Bustamante, Carlton Antony Taft

G-P34 Perovskite Mgsio₃ At Earth's Mantle Conditions

Michel Lacerda Marcondes Santos¹, Joao Francisco Justo Filho², Lucy V. Credidio Assali¹; ¹Instituto de Física, Universidade de São Paulo, ²Escola Politécnica da Universidade de São Paulo

G-P35 Point Defects In Mgo

Samuel Silva Santos¹, Joao Francisco Justo Filho, Lucy V. Credidio Assali; ¹Universidade de São Paulo

G-P36 Study Of Stereoisomeric Centers Of The Limonoid 3β-O-Destigloyl-3β-O-Benzoyl-12α-Acetoxyisowietephragmin C Using Sequential Qm/mm
Davi do Socorro Barros Brasil¹, Silvana de Oliveira Silva¹, Cláudio Nahum Alves¹, Milton Nascimento da Silva¹, Jeronimo Lameira Silva¹, Kelly Christina Ferreira Castro²; ¹Universidade Federal do Pará, ²Universidade Federal do Oeste do Pará**G-P37 Structural and Dynamical Properties Of Carbon Nanoscrolls**

Tatiana Mello da Costa Faro¹, Vitor Rafael Coluci¹, Munir Salomão Skaf; ¹Universidade Estadual de Campinas

G-P38 Platinum-Nickel Pt_NNi_{55-N} Nanoclusters: A Density Functional Theory Investigation

Ricardo Kita Nomiya¹, Maurício Jeomar Piotrowski, Juarez L.f. da Silva²; ¹Universidade de São Paulo, ²Instituto de Química de São Carlos

G-P39 Stability Of Diphenylalanine Nanotubes

Ygor Moraes Jaques¹, Eudes Eterno Fileti²; ¹Universidade Federal do ABC, ²Universidade Federal de São Paulo

G-P40 Ab-Initio and Cvm Calculations On The Metastable Fcc, Hcp, and Bcc Pb-Bi-Te and Pb-Bi-Po Ternary Systems

Luiz Tadeu Fernandes Eleno¹, Helena Maria Petrilli¹, Cláudio Geraldo Schön²; ¹Instituto de Física, Universidade de São Paulo, ²Escola Politécnica da Universidade de São Paulo

G-P41 Theoretical Studies Of Mefenamic Acid Polymorphs: Solid-State ¹³C Carbon-Nmr and Vibrational (Ir and Raman) Spectroscopies

Philippe Alexandre Divina Petersen, Helena Maria Petrilli, Vanessa Roberta Rodrigues Cunha, Marcia Laudelina Arruda Temperini, Vera Regina Leopoldo Constantino, Celly Mieke Shinohara Izumi, Alviclér Magalhães

G-P42 Augmented Gaussian Basis Sets For The Elements K, Sc-Kr, Rb, and Y-Xe: Application In Hf, Mp2, and Dft Calculations Of Molecular Electric Properties

Francisco Elias Jorge¹, Lucas Martins¹, Fábio de Souza¹, Geovane Ceolin¹, Ricardo de Berrêdo¹, Cesar Turczyn Campos¹; ¹Universidade Federal do Espírito Santo

G-P43 Polarization Energy Of A Benzene Dimer

Raphael Matozo Tromer¹, José Arruda Freire¹; ¹Universidade Federal do Paraná

G-P44 Vibrational and Electronic Structure Analysis Of The Interaction Between Nitric Oxide and Metalated Phthalocyanines

Alan Rocha Baggio¹, Heibbe Cristhian Benedito de Oliveira, Valter Henrique Carvalho Silva¹, Leonardo Giordano Paterno; ¹Universidade de Brasília

G-P45 Lattice Stability Studies Of α -Graphyne and Its hydrogenated and Oxygenated Forms.

Simone Silva Alexandre¹, Raphael Longuinhos, Elie Moujaes, Ricardo Wagner Nunes; ¹Universidade Federal de Minas Gerais

G-P46 Theoretical, Pm6, Conformational Study Of A Lipophilic Porphyrin-Cardanol Hybrid

Aguinaldo Robinson de Souza, Selma Elaine Mazzetto

G-P47 Dft Studies Of Pzt Slabs As A Function Of The Surface Composition and Number Of Layers
João Marques Cordeiro¹, Armando Beltrán²; ¹Faculdade de Engenharia Campus de Ilha Solteira, ²Universitat Jaume I**G-P48 Comparison Of Methods Of Optimization Using Evolutionary Algorithm and Downhill-Simplex Method For Determining The Solubility Parameters**
Cláudio Nunes Pereira, Guilherme Cañete Vebber**G-P49 Ab Initio Calculation Of Aluminum Impurities In Mgsio₃ Under Pressure**

Rolando Larico Mamani¹, Lucy V. Credidio Assali², Joao Francisco Justo Filho¹; ¹Escola Politécnica da Universidade de São Paulo, ²Instituto de Física, Universidade de São Paulo

PROGRAM

G-P50 Structural and Vibrational Study Of Bi_2O_3 Under Pressure

Andre Luiz Pereira¹, Daniel Errandonea², Armando Beltrán³, Lourdes Gracia³, Oscar Gomis¹, Juan Angel Sans¹, Braulio Garcia-Domene², Francisco Javier Manjón¹, Alfonso Muñoz⁴; ¹Universidad Politécnica de Valencia, ²Universitat de València, ³Universitat Jaume I, ⁴Universidad de La Laguna

G-P51 Rational Synthesis Of Molecular Imprinting Polymers For Selective Extraction Of Cannabinoids and Metabolites In Samples Of Sewage

Luciana Sarmiento Fernandes¹, Elizabete Lima¹, Paula Homem de Mello¹, Kathia Honorio²; ¹Universidade Federal do Abc, ²Escola de Artes, Ciências e Humanidades, Universidade de São Paulo

G-P52 Study Of The Effect Of Donor and Acceptor Electrons Groups In Dye Sensitizers Based On N3

Érica de Liandra-Salvador¹, Andre Sarto Polo, Paula Homem-De-Mello; ¹Universidade Federal do Abc

G-P53 "Protein-Like-Bulk Model" For Vibrational Spectroscopic Analysis Of Complex Biological System

Erika Tiemi Sato, Herculano da Silva Martinho

G-P54 Ab Initio Calculations Of The Lattice Dynamics and Structural Properties Of Pbte, Snte and Gete

Horácio Wagner Leite Alves¹, Antonio R. Rezende Neto¹, John E. Petersen², Pablo D. Borges³, Luisa M. R. Scolfaro²; ¹Universidade Federal de São João Del Rei, ²Texas State University, ³Fundação Universidade Federal de Viçosa

G-P55 Tddft Calculations Of The Electronic Excitations Of The Glycine Conformers

Horácio Wagner Leite Alves¹, Leonardo J. Honório¹, Diana S. S. Palhari¹; ¹Universidade Federal de São João Del Rei

G-P56 Analysis Experimental Of The Optical Properties Nonlinear Utilizing Matlab Code With Application Of The Sheik Bahae Equation

Elias O Serqueira¹; ¹Universidade Federal do Triângulo Mineiro

G-P57 Homo and Lumo Orbitals For The Ground State Of The Beal Molecule

Robson Alves Silva Simões¹, Vládir Wagner Ribas, Patrícia Regina Pereira Barreto¹; ¹Instituto Tecnológico da Aeronáutica

G-P58 Theoretical Study Of Hdi Reaction With Fatty Acids From Babassu Oil

Francisco Xavier Nobre¹, Francisco Ivan Silva¹, Hudson Gomes Evangelista¹, Nougá Cardoso Batista², José Milton Elias de Matos¹; ¹Universidade Federal do Piauí, ²Universidade Estadual do Piauí

G-P59 Biochemical Structure Study Of Hemoglobin S (2Hbs), Using The Software Rasmol As A Computer Simulation Tool

Tatiane Targino Gomes¹, Renato Massaharu Hassunuma¹, Paula Martins da Silva²; ¹Universidade Paulista, ²Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru

G-P60 Internal Distance Of A Knotted Protein.

Paula Martins da Silva¹, Aguinaldo Robinson de Souza²; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru, ²Departamento de Química - Faculdade de Ciências - Unesp/bauru

G-P61 Theoretical Investigation On The Reaction Of Carbon Dioxide With Amines. A Benchmark Study

Ednildson Orestes¹, Célia Machado Ronconi¹, José Walkimar de Mesquita Carneiro¹; ¹Universidade Federal Fluminense

SYMPOSIUM H

New Trends in Biomaterials and Nanomaterials Applied to Biosystems

ORAL SESSIONS

* Invited Lecture

MONDAY, SEPTEMBER 30

SESSION OS1-7 (09:30 - 10:30) ROOM: 7

09:30 H-O1*

Low Modulus Titanium Alloys For Fabricating Rods For Spinal Fixation Device

Mitsuo Niinomi, Masaaki Nakai, Junko Hieda, Ken Cho, Kengo Narita

10:10 H-O2

Investigation Of Mechanical Biocompatibility Of Low-Cost β -Type Ti-Mn Alloys For Biomedical Applications Fabricated By Metal Injection Molding

Pedro Fernandes Santos¹, Mitsuo Niinomi, Ken Cho, Masaaki Nakai, Junko Hieda, Yoshinori Itoh, Masahiko Ikeda; ¹Tohoku University

SESSION OS2-7 (10:50 - 12:30)
ROOM: 7**10:50 H-O3*****Investigation Of The Superelasticity And The Shape Memory Effect Of Biocompatible Ti-Nb Based Alloys**
Thierry Gloriant**11:30 H-O4****Development Of Ti-Zr Based Alloys With Changeable Young's Modulus For Spinal Fixation Applications**Masaaki Nakai¹, Mitsuo Niinomi¹, Junko Hieda¹, Ken Cho¹, Kengo Narita¹, Xiaoli Zhao¹**11:50 H-O5****Improvement Of Mechanical Strength Of Beta-Type Ti Alloys Through Microstructural Control Using A High Pressure Torsion**Ken Cho¹, Mitsuo Niinomi¹, Masaaki Nakai¹, Junko Hieda¹, Hakan Yilmazer¹, Yoshikazu Todaka², Sigeo Sato¹; ¹Tohoku University, ²Toyohashi University Of Technology**12:10 H-O6****Plasma Electrolytic Oxidation Of Medical Grade Titanium**Tamires Es Araujo, César A Antonio¹, Rita C. C. Rangel¹, Adriana Delgado¹, Elidiane Cipriano Rangel¹, Nilson Cristino Cruz²; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho", ²Unesp - Campus Experimental de Sorocaba**SESSION OS3-7 (15:00 - 16:20)**
ROOM: 7**15:00 H-O7*****Titania Nanotube Arrays As Interfaces For Blood Contacting Interfaces**
Ketul C Popat**15:40 H-O8****Formation Of Nanotube Surfaces On Ti-30Ta Alloy Using Ammonium Fluoride Electrolyte**Patricia Capellato¹, Ana Paula Rosifini Alves Claro¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp**16:00 H-O9****Human Osteoblastic Response Against Bio-Multifunctional Ti-Based Surfaces**Ana Rosa Ribeiro¹, Luís Augusto Rocha², Alexandra C Alves³, Fernando Oliveira³, Willian F Willian Zambuzzi⁴, Carolina da Silva Gouveia Pedrosa⁵, Bráulio Soares Archanjo⁶, Jose Mauro Granjeiro⁵, Elcio Marcantonio Jr.¹; ¹Univ Estadual Paulista, Faculdade de Odontologia de Araraquara, ²Departamento de Física - Faculdade de Ciências - Unesp/bauru, ³Universidade do Minho, ⁴Universidade Estadual Paulista, Instituto de Biociências, Botucatu, ⁵Instituto Nacional de Metrologia, Normalização e Qualidade Industrial, ⁶Instituto Nacional de Metrologia, Qualidade e Tecnologia**SESSION OS4-7 (16:40 - 18:00)**
ROOM: 7**16:40 H-O10****Electrostatic and Hydrophobic Forces In Model Membrane Systems**Osvaldo Novais Oliveira Jr**17:00 H-O11****Tribocorrosion In Biomaterials Science: An Overview**Luís Augusto Rocha¹, Fernando Oliveira¹, Helena Vaz Cruz¹, Maria João Carvalho Runa¹, Sofia Alves¹, Natacha Rivera¹, Elcio Marcantonio Jr.¹, Jose Mauro Granjeiro¹, Ana Rosa Ribeiro¹; ¹Faculdade de Ciências - Unesp/bauru**17:20 H-O12****Biomechanical Study In Polyurethane Mandibles Of Different Metal Plates and Internal Fixation Techniques, Employed In Mandibular Angle Fractures**Fernando Pozzi Semeghini Guastaldi¹, Thallita Pereira Queiroz², Eduardo Hochuli-Vieira¹, Antonio Carlos Gustaldi³; ¹Universidade Estadual Paulista, ²Centro Universitário de Araraquara, ³Instituto de Química - Unesp/car**17:40 H-O13****Investigating The Interactions Between Nanofibers/graphene Oxide and Neural Stem Cells**Thiers Massami Uehara¹, Shreyas Shah¹, Sy-Tsong Chueng¹, Valtencir Zucolotto¹, Kibum Lee¹; ¹Universidade de São Paulo**TUESDAY, OCTOBER 01****SESSION OS5-7 (09:30 - 10:30)**
ROOM: 7**09:30 H-O14*****Engineering Cell-Matrix Interactions**Pedro L Granja¹; ¹Universidade do Porto**10:10 H-O15****Biomaterials: Biological Origin Or Application?**Andrés Vercik¹, Luci Cristina de Oliveira Vercik¹, Thiago Antônio Villa Menezes¹, Eliana Cristina da Silva Rigo¹; ¹Faculdade de Zootecnia e Engenharia de Alimentos, Universidade de São Paulo**SESSION OS6-7 (10:50 - 12:30)**
ROOM: 7**10:50 H-O16*****Nuclear Deformation Of Cancerous Cells On Micropillared Surfaces: Interest For Understanding Mechanotransduction Of Invasive Metastatic Cells**
Karine Anselme

PROGRAM

11:30 H-O17

Innovative Boron Nitride Nanoparticles - Based Vectors For Cancer Treatment

Tiago Hilário Ferreira¹, Gianni Ciofani², Attilio Marino², Barbara Mazzolai², Virgilio Mattoli², Edésia Martins Barros de Sousa¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²Instituto Italiano Di Tecnologia

11:50 H-O18

Resveratrol/maghemite Loaded Superparamagnetic Pcl Nanocapsules : A New Approach For Cancer Therapy

Marcela Fernandes Silva¹, Mariani Armagni Ciciliati¹, Ana Adelina W. Hechenleitner¹, Edgardo Gómez Pineda¹, Daniela Martins Fernandes¹, Rebeca Peñalva², Maite Agüeros², Juan Manuel Irache², Adilson J A de Oliveira³; ¹Universidade Estadual de Maringá, ²Universidad de Navarra, ³Universidade Federal de São Carlos

12:10 H-O19

Activity Of Nano-Particulated Amphotericin-B, Ketoconazole And Thymoquinone Against Candida Albicans Yeasts and Biofilm

Mohammad Akram Randhawa, Alhosain Jaber Alzahrani, Huda Abdulrahim Bukhari, Mohammad Ashraf Gondal

SESSION OS7-7 (15:00 - 16:20) ROOM: 7

15:00 H-O20*

All Polyethylene Composites From Recycled Materials; Using Bacterial Cellulose As A Binder To Produce Dyneema® (Uhmwpe) Fibre Reinforced Hdpe

Jonny James Blaker, Rafael Panzetti, Alexander Bismarck

15:40 H-O21

Production Of Pva Hydrogels With Cellulose Nanocrystals For Medical Devices

Cássia Costa Giroto¹, Thaís Larissa do Amaral Montanheiro¹, João Paulo Machado², Nelson Durán^{3,4}, Ana Paula Lemes^{3,1}; ¹Universidade Federal de São Paulo, ²Instituto Nacional de Pesquisas Espaciais, ³Universidade Estadual de Campinas, ⁴Universidade Federal do Abc

16:00 H-O22

Development Of Biomaterials From Blends Of Fluoropolymers and Corn Starch.

João Domingos Augusto dos Santos Pereira¹, Regina Celi Trindade Camargo¹, José Carlos Silva Camargo Filho¹, Neri Alves, Miguel Angel Rodríguez-Pérez², Carlos José Leopoldo Constantino¹; ¹Fct-Unesp Campus de Presidente Prudente, ²Universidad de Valladolid

SESSION OS8-7 (16:40 - 18:00) ROOM: 7

16:40 H-O23

Size-Dependent Properties Of Porous Diatom Biostructures Via Experiments and Simulations For Nanotechnology Applications

Lilian P. Dávila, Miguel Fernando Diaz Moreno

17:00 H-O24

Correlation Of Composition and Structure Of Shark Teeth

Oleg Prymak¹, Joachim Enax¹, Helge Fabritius², Dierk Raabe², Matthias Eppel¹; ¹University Of Duisburg-Essen, ²Max Planck Institute Für Eisenforschung

17:20 H-O25

Surface Coated With Plant Natural Products Inhibits Adhesion Of Pathogenic Bacterium

Danielle Silva Trentin¹, Denise Brentan Silva², Karine Rigon Zimmer¹, Amanda Picoli Frasson¹, Márcia Vanusa Silva³, Gabriel Vieira Soares¹, Norberto Peoporine Lopes², Raquel Brandt Giordani⁴, Alexandre José Macedo; ¹Universidade Federal do Rio Grande do Sul, ²Universidade de São Paulo, ³Universidade Federal de Pernambuco, ⁴Universidade Federal do Rio Grande do Norte

17:40 H-O26

Magnetic Nanoparticles Coupled With β -Cyclodextrin As A Delivery System For Doxorubicin

Amanda Watanabe Paraguassú¹, Célia Machado Ronconi, Maria Domingues Vargas; ¹Universidade Federal Fluminense

POSTER SESSION

WEDNESDAY, OCTOBER 02

SESSION PS3 (16:40 - 18:00) ROOM: Poster Session

H-P1 Incorporation Of Proteins In Large Pore Sba-15

Paulo Ricardo Garcia¹, Marcia Carvalho de Abreu Fantini, Osvaldo Augusto Brazil Esteves Sant'anna; ¹Universidade de São Paulo

H-P2 Influence Of Silver Nanoparticles On The Electrical Resistivity Of Chlorophyll Methanolic Extract From Soybean Leaves

Gustavo Kenji Iwazaki da Silva¹, Diany Lucy Silveira dos Reis¹, William Ferreira Falco¹, Anderson Rodrigues Lima Caires¹, José Ezequiel de Souza¹; ¹Fundação Universidade Federal da Grande Dourados

H-P3 Cutaneous Ureasil-Polyether Hybrids Films To Controlled Release Of Dexamethasone Acetate

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H-P4 Adsorption Of Enzymes On Hybrid Langmuir-Blodgett Films Immobilized With Algal Polysaccharides / Phospholipids

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H-P5 Enzymes Immobilized In Langmuir-Blodgett Films For Biosensing and Molecular Recognition

Luciano Caseli¹, Nathaly Cristina Muriel Zanon¹, Dilmer Rodrigues¹; ¹Universidade Federal de São Paulo

H-P6 Study Of The Interaction Of The Enzyme Sucrose Phosphorylase In Langmuir and Langmuir-Blodgett Phospholipid Films

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H-P7 Study Of The Interaction Of Carbon Nanotubes With A Self-Assembling Peptide

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H-P8 Growth Of Calcium Phosphate After Tio2 Nanotube Array By Anodic Oxidation Of Ti-7.5Mo

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H-P9 Study Of Controlled Release Of Pesticides Using Activated Carbon

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H-P10 Effect Of Thermal and Mechanical Treatments On The Microstructure and Microhardness Of The Alloy Ti10%wtNi

Daniela Cascadan¹, Carlos Roberto Grandini¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

H-P11 Effect Of Quenching On The Microstructure and Some Selected Mechanical Properties Of Alloys Of The Ti-15Mo-Xnb System Used For Biomedical Applications

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H-P12 Microestrutural, Characterization and Mechanical Properties Of The Ti-25Wt%mo and Ti-30Wt%mo Alloys

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H-P13 Phospholipid Langmuir-Blodgett Films As Biomembrane Model

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H-P14 Effect Of Quenching In The Microstructure and Some Selected Mechanical Properties Of Ti-15Zr-Xmo Alloys

Diego Rafael Nespeque Correa¹, Carlos Roberto Grandini¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

H-P15 N-Palmitoyl Chitosan Conjugates For Potential Biomedical Applications

Herman Sander Mansur¹, Fábio Pereira Ramanery, Alexandra Apisiciteli Mansur; ¹Universidade Federal de Minas Gerais

H-P16 Microstructure and Selected Mechanical Properties Of Ti-15Zr-5Mo Alloy After Solubilization Treatment

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H-P17 Growth and Characterization Of Tio2 Self-Organized Nanotubes On Titanium-Based Biomaterials

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H-P18 Laser-Heated Pedestal Growth Of Al2O3-Nd2O3 System For Thermotherapy Devices

Sergio Paulo Marcondes, Marcello Rubens Barsi Andreeta, Antonio Carlos Hernandes

H-P19 Preparation and Characterization Of Ti-19Wt%ta and Ti-23Wt%ta Alloys For Use As Biomaterial

Regiane Aparecida Pineiz¹, Carlos Roberto Grandini¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

H-P20 Engineered Nanomaterials: Nanotoxicology Issues, Nanosafety and Regulatory Aspects

Carla dos Santos Riccardi¹, Antonio Carlos Gustaldi¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

H-P21 Ftir Analysis Of The Interaction Of A Nanostructured Ph-Responsive Peptide With Model Lipid Membranes

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H-P22 Preparation and Characterization Of Ti-15Zr-7.5Mo Alloy For Biomedical Applications

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H-P23 Microstructural Study In Ti-Mo-Xzr As A Function Of The Concentration Of Interstitial Oxygen and Substitutional Zirconium

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H-P24 Obtainment Of Nanotubes On Biomedical Ti Cp

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H-P25 Gold Nanoparticle (Aunps) Effects On Lettuce (Lactuca Sativa L.) and Bean (Phaseolus Vulgaris) Seed Germination

Juliano Elvis Oliveira, Morgana Conceição da Cruz Gomes, Lívio Bruno Jacques da Silva, Rodrigo Lambert Oréface

H-P26 Release Of The Flunixin and Diclofenac Anti-Inflammatories By Nanostructured Membranes Of Poly (3-Hydroxybutyrate) Obtained From Electrosinning

Karine Yamamura Sakamoto, Michelle Andrade Souza, Luiz Henrique Capparelli Mattoso, Juliano Elvis Oliveira, Eliton Souto Medeiros¹; ¹Embrapa Instrumentação

H-P27 Release Of The Linalool Oil By Nanostructures Membranes Of Polylactide Obtained From Electrosinning and Solution Blow Spinning

Michelle Andrade Souza, Luiz Henrique Capparelli Mattoso, Karine Yamamura Sakamoto, Juliano Elvis Oliveira, Eliton Souto Medeiros¹; ¹Embrapa Instrumentação

H-P28 Tribocorrosion Behaviour Of New Ti35Nb5Zr and Ti35Nb10Zr Anodized Alloys

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H-P29 Study Of Starch-Clay Nanocomposites For Herbicides Slow-Release:evidence Of Synergistic Effects

Amanda Soares Giroto¹, Adriana Campos, Camila C. T. da Cruz, José Manoel Marconcini, Cauê Ribeiro Oliveira; ¹Universidade Federal de São Carlos

H-P30 Encapsulation Of Ketoprofen In Biocompatible and Stimuli-Sensitive Poly(N-Vinylcaprolactam-Co-Acrylic Acid) Via Nanoprecipitation For Controlled Drug Release

Júlia Hardman Guimarães¹, Simone de Fátima Medeiros¹, Amilton Martins dos Santos¹; ¹Escola de Engenharia de Lorena

H-P31 Development Of Film-Forming Polymeric Organic-Inorganic Hybrids For Controlled Drug Delivery Of Silver Sulfadiazine

João Augusto Oshiro Junior, Leticia Moirya Shiota, Mariana Rillo Sato, Leila Aparecida Chiavacci

H-P32 Microstructural and Mechanical Evaluation Of The Alloy Ti-40Nb-2Ta Deformed By Cold Rolling

Aldemir Luiz Dall-Astra¹, Magna Bibiano de Oliveira¹, Alexandra de Oliveira França Hayama¹; ¹Universidade Federal de Mato Grosso

H-P33 Characterization and In Vitro Evaluation Of Solid Lipid Nanoparticles Loading Local Anesthetic Articaine

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H-P34 Hydroxyapatite Nanoparticles Containing ⁹⁰Y Applied To Osteosarcoma Treatment

Marcelo Fernandes Cipreste¹, Edésia Martins Barros de Sousa¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear

H-P35 Direct-Write Assembly Of 3D Scaffolds Using Concentrated Calcium Phosphates Inks

Raquel Costa Richard, Glória de Almeida Soares, Rossana Mara da Silva Moreira Thiré

H-P36 Surface Characterization Of Ti-30Ta Alloy After Biomimetic Surface Treatment and Antibiotic Incorporation

Maria Isabel Eboli Kimaid¹, Camila Débora Santos Sales¹, Ana Paula Rosifini Alves Claro¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

H-P37 Preliminary Evaluation Of Characteristics Of Collagen From The Skin Of Nile Tilapia (Oreochromis Niloticus): Potencial Use As Polymer Matrix

Gabriela Ibiapina Figueiredo, Maria do Livramento Linhares Rodrigues, Yale Luck Nunes, Men de Sá Moreira de Souza Filho, Morsyleide de Freitas Rosa, Judith Pessoa de Andrade Feitosa, Diego Magalhães do Nascimento

H-P38 ⁹⁰Y-Loaded Mcm-41 Silica Nanoparticles As A Potential Anti-Colorectal Cancer Agent

Carolina Aguiar Ferreira¹, André Luís Branco de Barros¹, Edésia Martins Barros de Sousa¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear

H-P39 ^{99m}Tc-Labeled Sba-16 Silica Nanoparticles As A Potential Nanoplatfom For Cancer Diagnosis

André Luís Branco de Barros¹, Gracielle Ferreira Andrade¹, Valbert Nascimento Cardoso², Edésia Martins Barros de Sousa¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²Universidade Federal de Minas Gerais

H-P40 Controlled Release Of Amiloride From Amino-Silylated Ksf

Graycyelle Rodrigues da Silva Cavalcanti¹, Denise Brito França¹, Mariana Brito Batista Pereira¹, Francisco de Assis Rodrigues Pereira¹, Kaline Soares Souza¹, Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹, Maria Gardennia Fonseca¹; ¹Universidade Federal da Paraíba

H-P41 Optical Detection Of Hepatitis C Using Yvo4:eu3+ Nanoparticles Immobilized Into Nanostructured Films Containing The Antigenic Peptide Ns5A-1 From Hcv and Silk Fibroin
Lais Roncalho Lima, Marli Leite de Moraes¹, Karina Nigoghossian, Maristela Peres, Sidney José Lima Ribeiro; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

H-P42 Mesoporous Hydroxyapatite Synthesized Using Casein As Template.
Mariana Brito Batista Pereira¹, Graycyelle Rodrigues da Silva Cavalcanti¹, Denise Brito França¹, Oberto Granjeiro da Silva, Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹, Maria Gardennia Fonseca¹; ¹Universidade Federal da Paraíba

H-P43 Controlled Release Of Amiloride From Modified Vermiculites.
Mariana Brito Batista Pereira¹, Denise Brito França¹, Mirella Cabral Avelino¹, Graycyelle Rodrigues da Silva Cavalcanti¹, Francisco de Assis Rodrigues Pereira¹, Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹, Maria Gardennia Fonseca¹; ¹Universidade Federal da Paraíba

H-P44 Iron Oxide Nanoparticles Functionalized With Paa-Co- Dextran Using Inverse Miniemulsion
Rodolfo Debone Piazza¹, Eloiza da Silva Nunes¹, Miguel Jafellicci Júnior¹; ¹Instituto de Química - Unesp/car

H-P45 Operating Nanovalves
Célia Machado Ronconi¹; ¹Universidade Federal Fluminense

H-P46 The Effect Of Capsaicinoids On Langmuir Films Of Phospholipids
Vananelia Pereira Nunes Geraldo¹, Analine Crespo Ziglio, Osvaldo Novais Oliveira Jr; ¹Universidade de São Paulo

H-P47 Cyclodextrin Polymer-Pmaa Nanofibers Obtained By Electrospinning For Drug Delivery Systems
Michele Fabiane Oliveira¹, Frederico Barros de Sousa², Rubén Dario Sinisterra¹; ¹Universidade Federal de Minas Gerais, ²Universidade Federal de Itajubá

H-P48 Sodium Alendronate Incorporation On Ti-15Mo Alloy Surface Using Biomimetic Treatment
André Luiz Reis Rangel¹, Ana Paula Rosifini Alves Claro¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

H-P49 Physico-Chemical Characterization Of The Interaction Between Quercetin and Poloxamer 407 and 403 For Topical Use.
Juscemácia Nascimento Araujo¹, Daniele Ribeiro de Araujo; ¹Universidade Federal do Abc

H-P50 Microstructural Characterization Of Dental Resin Composites By Digital Microscopy
Beatriz Tholt Vasconcellos¹, Sidnei Paciornik², Adriana Hannickel³, Ariella Fontes⁴, Rodrigo Prioli²; ¹Universidade Veiga de Almeida, ²Pontificia Universidade Católica-Rio, ³Pontificia Universidade Católica-Rio, ⁴Universidade Federal do Rio de Janeiro

H-P51 Silk Fibroin Hydrogels As Matrix For Controlled Release Of Drugs
Mariana Agostinho de Moraes¹, Mariana Ferreira Silva, Marisa Masumi Beppu; ¹Universidade Estadual de Campinas

H-P52 Electrical Detection Of Antigen-Antibody Interactions Using A Commercial Mosfet
Nirton C. S. Vieira¹, Alessandra Figueiredo¹, Naiara Zambianco¹, Juliana Feliciano dos Santos¹, Francisco Eduardo Gontijo Guimarães¹, Valtencir Zucolotto¹; ¹Instituto de Física de São Carlos

H-P53 Production Of A Biomaterial Made Of 316L Stainless Steel and Hydroxyapatite Obtained By Powder Metallurgy
João Carlos da Silva¹, Gilbert Silva², Fernando Vernilli Júnior¹; ¹Universidade de São Paulo, ²Universidade Federal de Itajubá

H-P54 Pva/papain - Hydrogel Matrices As Dressings For Wound Healing
Gustavo H.C. Varca¹, Caroline Cristina Ferraz¹, Bruna Melo Diniz¹, Vinicius da Silva Carvalho¹, Jorge Gabriel dos Santos Batista¹, Patrícia Santos Lopes², Ademar Benévolo Lugão¹; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp, ²Universidade Federal de São Paulo

H-P55 Study Of Cellulose Sulfite Fibers Pulp Reduction Recycled By The Process Of Acidic Hydrolysis and Ultrasonication
Cristiane Pereira de Siqueira¹, Thaís Larissa do Amaral Montanheiro¹, Ana Paula Lemes^{2,1}; ¹Universidade Federal de São Paulo, ²Universidade Estadual de Campinas

H-P56 Characterization Of Phbv/carbon Nanotubes Nanocomposites After Biodegradation In Soil
Ana Paula da Silva¹, Thaís Larissa do Amaral Montanheiro¹, Nelson Durán^{2,3}, Ana Paula Lemes^{2,1}; ¹Universidade Federal de São Paulo, ²Universidade Estadual de Campinas, ³Universidade Federal do Abc

H-P57 Electrodeposited ZnO Nanostructures As Field-Effect Transistor Immunosensor
Izabela Gutierrez de Arruda¹, Nirton C. S. Vieira¹, Edna Regina Spada¹, Francisco Eduardo Gontijo Guimarães¹; ¹Universidade de São Paulo

H-P58 Thermal Analysis Of Gelan Gum/pectin Microspheres
Fabíola Garavello Prezotti¹, Beatriz Ferreira Cury¹, Raul Cesar Evangelista¹; ¹Faculdade de Ciências Farmacêuticas - Unesp/campus Araraquara

H-P59 Preparation and Characterization Of Multifunctional Nanoparticles Containing Iron Oxide and Cyclodextrin As Drug Delivery System

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H-P60 Synthesis Of Nano and Submicro Mullite Fibers Using Solution Blow Spinning

Rosiane Maria da Costa Farias¹, Rolmualdo Rodrigues Menezes², Juliano Elvis Oliveira¹, Eliton Souto Medeiros¹; ¹Universidade Federal da Paraíba, ²Universidade Federal de Campina Grande

H-P61 Multiparametric In Vitro Evaluation Of Cytocompatibility Of 1% Strontium-Containing Nanostructured Hydroxyapatite

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H-P62 Dendrimer/metallophthalocyanine Membranes For Segfet-Based Biosensor

Edson Giuliani Ramos Fernandes, Nirton Cristi Silva Vieira¹, Alvaro Antonio Alencar de Queiroz², Francisco Eduardo Gontijo Guimarães¹, Valtencir Zucolotto¹; ¹Universidade de São Paulo, ²Universidade Federal de Itajubá

H-P63 Nanostructured Polyaniline Thin Films As Urea Sensing Membranes In Fet-Based Devices

Nirton Cristi Silva Vieira¹, Alessandra Figueiredo¹, Edson Giuliani Ramos Fernandes¹, Francisco Eduardo Gontijo Guimarães¹, Valtencir Zucolotto¹; ¹Universidade de São Paulo

H-P64 Influência de Tratamentos de Superfícies Na Resistência de União Cerâmica Y-Tzp/cimento Resinoso.

Luiz Ricardo Menani¹, Ricardo Faria Ribeiro², Rodrigo Tiossi², Antonio Carlos Guastaldi¹; ¹Instituto de Química Unesp Araraquara, ²Faculdade de Odontologia de Ribeirão Preto - Usp

H-P65 F1-Protein Adsorbed To Two Ceramic Improves Bone Repair In The Critical-Size Defect In A Concentration-Dependent Manner

Tania Mary Cestari¹, Bruno C Cavenago¹, Gerson Francisco Assis¹, Gustavo Garlet¹, Rumio Taga¹; ¹Faculdade de Odontologia de Bauru - Usp

H-P66 Satisfactory Maxillary Sinus Lift In Rabbits Treated With Ha/tcpp 70:30 Versus Skull Autogenous Graft

Caroline Andrade Rocha¹, Tania Mary Cestari¹, Gerson Francisco Assis¹, Gustavo Garlet¹, Rumio Taga¹; ¹Faculdade de Odontologia de Bauru Fob-Usp

H-P67 Effect Of Bleaching On The Thermal Stability Of Caroá(Neoglaziovia Variegata) Fibers

Murilo José Pereira de Macêdo¹, Amelia Severino Ferreira e Santos, Juliano Elvis Oliveira, Eliton Souto Medeiros; ¹Universidade Federal da Paraíba

H-P68 Urea Controlled Dessorption By Nanostructured Hydrogels Modified With Calcic Montmorillonite

Adriel Bortolin, Fauze Ahmad Aouada, Cauê Ribeiro Oliveira, Luiz Capparelli Mattoso

H-P69 Microbial Barrier Properties Of Pla /pvp Nanofibrous Nonwoven Membranes Obtained By Solution Blow Spinning

Roberta Bonan, Allan Reis Albuquerque, Eliton Souto Medeiros, Juliano Oliveira

H-P70 Pm-Irras and Bam Studies On The Adsorption Of Condroitin Sulfate On Phospholipid Monolayers

Lucineia Ferreira Ceridório¹, Luciano Caseli², Osvaldo Novais Oliveira Jr¹; ¹Instituto de Física de São Carlos, ²Universidade Federal de São Paulo

H-P71 Langmuir and Langmuir-Blodgett (Lb) Films Formed By Neat O,o' - Dimyristoyl and O,o' - Dipalmitoyl Chitosan and Mixed With Dmpa Phospholipid

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H-P72 Preliminary Analysis Of The Apatite-Coated Al2O3 Implants As Scaffolds For Bone Repair

Vicente Galber Freitas Viana, Antonio Luis Martins Maia Filho, Fabrício Pires de Moura do Amaral, Charlyton Luis de Sena Costa, Luis E. S. Lobo, Anderson Oliveira Lobo, Jucelino Lopes da Silva, Eliandra de Sousa Trichês

H-P73 Antibacterial Properties Of Hydroxyapatites Obtained By Different Routes

Marcus Vinicius Beserra dos Santos¹, Giselle Tôres Feitosa, Francisco Xavier Nobre, Humberto Medeiros Barreto, Luizângela Reis Osório, Edson Cavalcanti da Silva Filho; ¹Universidade Federal do Piauí

H-P74 Thermal Characterization Of High Density Polyethylene/molluscs Shell Powder Composites

Patricia Maria Alves Melo¹, Lucineide Balbino Silva¹, Amelia Severino Ferreira e Santos¹, Marcelo Massayoshi Ueki²; ¹Universidade Federal da Paraíba, ²Universidade Federal de Sergipe

H-P75 Guvs Bio-Adhesion Applied For Monitoring Photo-Oxidation In Lipid Membranes

Pedro Henrique Benites Aoki, Andre P Schroder, Carlos José Leopoldo Constantino, Carlos M Marques

H-P76 Nanostructure and Hydrophilicity Of Nanotube Formed Ti For Biocompatibility

Maria Cristina Rosifini Alves Rezende¹, Jorge Luiz Rosa², Alain - Robin², Roberto Zenhei Nakazato³, Sandra Giacomini Schneider, João Augusto Guedes Oliveira³, Maria Emília Pereira Bensi⁴, Ana Paula Rosifini Alves Claro³; ¹Faculdade de Odontologia de Araçatuba, Unesp, ²Escola de Engenharia de Lorena - Usp, ³Faculdade de Engenharia de Guaratinguetá - Unesp, ⁴Faculdade de Ciências - Unesp Bauru

H-P77 Xanthan-Based Film For Application As Polymer Electrolyte

Doris Sippel Dörr, Deise Peres de Mello, Cristiane Ferraz de Azevedo, Katia Kastagno, Neftalí Lenin Villarreal Carreño, César Antonio Oropesa Avellaneda

H-P78 Effect Of The Compatibilization On The Mechanical Properties Of Polypropylene Blends

Itamara Farias Leite¹, Jéssica Raquel M. B. da Silva¹, Bárbara Fernanda F. dos Santos¹, Danilo Siqueira Diniz², Suédina Maria Lima Silva²; ¹Universidade Federal da Paraíba, ²Universidade Federal de Campina Grande

H-P79 Chemical Vapor Detection With A Cantilever Nanosensor Coating With Conducting Polymer

Clarice Steffens^{1,2,3}, Alexandra Manzoli, Rafael Dias Sandoval, Fabio de Lima Leite⁴, Lidia Tiggemann¹, Juliana Steffens¹, Orlando Fatibello Filho², Paulo Sergio de Paula Herrmann⁵; ¹Universidade Regional Integrada do Alto Uruguai e Das Missões, ²Universidade Federal de São Carlos - Campus: São Carlos, ³National Nanotechnology Laboratory For Agribusiness, Embrapa Instrumentation, ⁴Universidade Federal de São Carlos, ⁵Embrapa Instrumentação

H-P80 Esi(+)-Ms Study Of Acid Hydrolysis Of N-Azobenzyl Derivatives Of Chitosan

Fernanda Stuani Pereira¹, Heliara Lopes do Nascimento, Marcos Eberlin, Eduardo Pérez González; ¹Fct-Unesp Campus de Presidente Prudente

H-P81 Ionic Conductivity Of The Pva-Based Electrolyte

Deise Peres de Mello, Doris Sippel Dörr, Cristiane Ferraz de Azevedo, Katia Kastagno, Neftalí Lenin Villarreal Carreño, César Antonio Oropesa Avellaneda

H-P82 Biofilm Formation Inhibition Of Pseudomonas Aeruginosa In Titanium Surfaces That Were Plasma Nitrided

Michelle de Medeiros Aires¹, Danilo Cavalcante Braz¹, Luis Carlos de Oliveira¹, Igor Oliveira Nascimento¹, Keylla Dayanne Coelho¹, Alexandre José Macedo², Clodomiro Alves Jr.³; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal do Rio Grande do Sul, ³Universidade Federal Rural do Semi

H-P83 Comparative Study Of The Mechanical Properties Of Cold Worked Ti-35Nb-7Zr Biomedical Alloy

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H-P84 System To Measure The Shear Modulus Of Titanium

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H-P85 Nylon' Shear Modulus (G) and Internal Friction (Q⁻¹) When Irradiated At Microwave

Carlos Alberto Fonzar Pintão¹, Momotaro Imaizumi¹, Neusa Maria Pavão Battaglini¹, Carlos Alberto Soufen²; ¹Departamento de Física - Faculdade de Ciências - Unesp/bauru, ²Faculdade de Engenharia de Bauru

H-P86 Electroanalytical Efficiency Of Gold Nanoparticles Onto Poly(4-Aminophenol) Matrix For Meningitis Diagnosis

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H-P87 Sodium Alendronate Incorporation On Ti-7,5Mo Alloy Surface Using Biomimetic Treatment

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H-P88 Surface Analyses Of The Ti-7.5Mo Alloy After Treatment With Drug Incorporation

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H-P89 Characterization Of The Interaction Of Natamycin With Lipidic Langmuir Monolayers

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H-P90 Incorporation Of Gox Into Liposomes Using The Layer- By-Layer technique For Detection Of Glucose

Marystela Ferreira¹, Juliana Santos Graça¹, Marli Leite de Moraes²; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho

H-P91 Biosensor Made With Glucose Oxidase (Gox) and Microperoxidase Incorporated Into Liposomes For Detecting Glucose In Samples Of Lactose-Free Milk

Juliana Santos Graça¹, Marystela Ferreira², Marli Leite de Moraes³; ¹Universidade Federal de São Carlos, ²Universidade Federal de São Carlos/campus Sorocaba, ³Universidade Estadual Paulista Júlio de Mesquita Filho

H-P92 Features Of The Ti-35Nb-7Zr Alloy'S Surface Modified By Alkaline Treatment and Soaking In Sbf

Sandra Giacomini Schneider¹, Eleonora Thais Alvarez de Carvalho¹, Ana Lúcia A. Escada, Ana Paula Rosifini Alves Claro²; ¹Escola de Engenharia de Lorena - Usp, ²Faculdade de Engenharia de Guaratinguetá - Unesp

H-P93 Properties Of A New Poly-Ether-Glycol Copolymer

Cilaine Verônica Teixeira¹, Yuri Alencar², Ester Riedner Figini¹, Marcia Carvalho de Abreu Fantini³, Cristiano Luís Pinto de Oliveira³, Diomar da Rocha Santos Bittencourt³, Mitsukimi Tsunoda²; ¹Universidade Federal do Rio Grande do Sul, ²Universidade Federal de São Carlos, ³Instituto de Física da Universidade de São Paulo

H-P94 Analysis Of The Pro-Inflammatory Response Of Macrophages Grown In Substrate Containing Carbon Nanotubes Multi-Wall (Mwcnts)

Mirian Michelle Machado¹, Anderson Oliveira Lobo², Evaldo José Corat, Marcus A.f. Corat¹; ¹Centro Multidisciplinar Para Investigação Biológica, ²Universidade do Vale do Paraíba

H-P95 Microstructure Analysis Of Al₂O₃-Nb₂O₅-ZrO₂ Ceramic Composites

Sergio Luiz Mineiro¹, Maria do Carmo de A. Nono¹; ¹Instituto Nacional de Pesquisas Espaciais

H-P96 Evaluation Of Microstructure Of Ti-30Ta Alloy After Simulation Of Conditions Forging

Reginaldo Toshihiro Konatu, Ana Paula Rosifini Alves Claro

H-P97 A Comparison Of The Corrosion Resistance Of Ti, Ti-Nb Alloys In Apf And Bsa Solutions

Caio Palumbo Abreu¹, Isolda Costa, Sérgio Luiz de Assis¹, Rogério Marques¹, Luciano Monteiro Silva², Carlos Roberto Grandini²; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp, ²Departamento de Física - Faculdade de Ciências - Unesp/bauru

H-P98 thermal Characterization Of poly(Lactic Acid)/tio₂ Nanocomposite Fibers Obtained By Solution Blow Spinning

Rodrigo Guerreiro Fontoura Costa, Cauê Ribeiro Oliveira, Glaucia Silveira Brichi, Luiz Henrique Capparelli Mattoso

H-P99 Zinc Containing Glass Ionomers – A New Perspective.

Lilian Paiva^{1,2}, Lydie Ploux², Karine Anselme², Robert Hill³, Rossana Mara da Silva Moreira Thiré¹; ¹Universidade Federal do Rio de Janeiro, ²Université de Haute Alsace Mulhouse, ³Queen Mary University Of London

H-P100 Photocatalytic Properties Of Poly(Lactic Acid)/tio₂ Nanocomposite Fibers

Rodrigo Guerreiro Fontoura Costa, Cauê Ribeiro Oliveira, Glaucia Silveira Brichi, Luiz Henrique Capparelli Mattoso

**H-P101 Microparticles Of Poly(D,L-Lactic-Co-Glycolic Acid) (Plga) With Methotrexate Obtained By **

Mirela Cardoso Garcia, Ana Cláudia da Cunha Depaoli, Kamila Rotolo Mussarelli, Maria Virgínia Costa Scarpa

H-P102 Qualitative Analysis Of Solid Lipid Nanoparticle Containing Ibuprofen By Infrared Spectrophotometry

Ana Cláudia da Cunha Depaoli¹, Kamila Rotolo Mussarelli¹, Mirela Cardoso Garcia¹, Maria Virgínia Costa Scarpa¹; ¹Faculdade de Ciências Farmacêuticas - Unesp/campus Araraquara

H-P103 Obtainment and Characterization Of Pure Films Of Plga, Phb and Its Blends

Layla Mosqueira Moura¹, Clara Lana Bispo Fidelis¹, Sidney Nicodemos da Silva¹, Luciana Maria Silva²; ¹Centro Federal de Educação Tecnológica de Minas Gerais, ²Fundação Ezequiel Dias

H-P104 Simultaneous Magnetic Alignment and Covalent Immobilization Of Mwct On Polymethylmethacrylate Substrates

Isaac Aarón Frías¹, Celso de Melo¹, Cesar Andrade¹; ¹Universidade Federal de Pernambuco

H-P105 Effects Of Aging Heat Treatments On The Precipitation Of Metastable Phases In Ti-Nb and Ti-Nb-Sn Alloys

Camilo Augusto Fernandes Salvador¹, Rubens Caram¹; ¹Universidade Estadual de Campinas

H-P106 Titanium Bioactivity Surfaces Obtained By Chemical/electrochemical Treatments

Neide Kazue Kuromoto¹, Paola Tummler¹, Bruno Leandro Pereira, Claudia Marino¹, Paulo Cesar Soares²; ¹Universidade Federal do Paraná, ²Pontifícia Universidade Católica do Paraná

H-P107 Proliferation and Differentiation Of Osteoblasts Cultured On Collagen Membranes

Emanuela Prado Ferraz¹, Samuel Porfírio Xavier¹, Marcio Mateus Beloti¹, Adalberto Luiz Rosa¹, Sergio Scombati de Souza¹; ¹Faculdade de Odontologia de Ribeirão Preto - Usp

H-P108 Sustainable Disposal Of Sewage Sludge By Composting In Bioreactor

Edvaldo José Scoton¹, Erich Kellner², Jorge Akutsu², Rosane Aparecida Gomes Battistelle³, Adilson Renóbio³, Juliana Santos Egea³; ¹Universidade Federal de São Carlos - Campus: São Carlos, ²Universidade Federal de São Carlos, ³Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru

H-P109 Pva/pvp Iodine Hydrogels For Wound Healing

Bruna Melo Diniz, Gustavo H.c. Varca, Vinicius da Silva Carvalho, Jorge Gabriel dos Santos Batista, Ademir Benévolo Lugão

H-P110 Phase Transformation Of The Titanium Base Alloy In The Dilatometry

Volney Mattos de Oliveira¹; ¹Universidade de São Paulo

H-P111 Obtaining Of Zirconium Powder By High Energy Ball Milling Of Commercial Plates Chips

Ian Caio Peixoto Couto¹, José Luiz Minatti¹, Sandra Giacomini Schneider¹, Durval Rodrigues Júnior¹; ¹Escola de Engenharia de Lorena - Usp

H-P112 Mechanical Characterization Of The Ti-25Ta Experimental Alloy.

Guilherme Rogeri Moreira Santos¹, Reginaldo Toshihiro Konatu, Ana Paula Rosifini Alves Claro; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

H-P113 Nanocomposite Antimicrobial Prepared By Clove Nanoemulsion and Pectin Matrix

Marcia Regina de Moura^{1,2}, Luiz Henrique Capparelli Mattoso²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Embrapa Instrumentação

H-P114 Spectroscopic Properties Of Thermoplastic Starch-Based Bionanocomposites

Fauze Ahmad Aouada¹, Luiz Henrique Capparelli Mattoso, Elson Longo; ¹Faculdade de Engenharia Campus de Ilha Solteira

H-P115 Mechanical Properties Of Titania Nanotubes

Luciane Sopchenski Santos¹, Nilson T. C. Oliveira², Carlos Mauricio Lepiensi¹, Cláudia E. B. Marino¹, Neide Kazue Kuromoto¹; ¹Universidade Federal do Paraná, ²Ufscar

H-P116 Effect Of Flash-Thermal Treatment On Microstructure Of The Ti-35Nb-7Zr Biomedical Alloy

Beatriz Zuleika de Macedo¹, Lucas Roque Chiaramonte², Sergio Schneider², Sandra Giacomini Schneider²; ¹Instituto Tecnológico de Aeronáutica, ²Escola de Engenharia de Lorena - Usp

H-P117 Poly(Lactic Acid)-Collagen Membrane Seeded With Mesenchymal Cells For Cardiac Tissue Engineering

Alida Ospina Orejarena¹, Guillermo Prado-Villegas²; ¹Universidad Nacional Autónoma de México, ²Hospital Regional de Alta Especialidad de Ixtapaluca

H-P118 Theoretical Study On The Interaction Of Chlorine Felodipine On The Surface Of Carbon Nanotubes Armchair

Loraine Morete Dutra, José Divino Santos, Luciana Machado Ramos

H-P119 Production Of Hydrogel Of Chitosan and Cellulose Nanocrystals Targeting Applications In The Medical Field

Mateus dos Santos Silva¹, Thaís Larissa do Amaral Montanheiro¹, João Paulo Machado², Andréia Aparecida do Nascimento Pomari¹, Nelson Durán^{3,4}, Ana Paula Lemes^{3,1}; ¹Universidade Federal de São Paulo, ²Instituto Nacional de Pesquisas Espaciais, ³Universidade Estadual de Campinas, ⁴Universidade Federal do ABC

H-P120 Construction Of A Bioelectrode For Detection Of Troponin T

Lívia Maria Alves¹, João Marcos Madurro¹, Ana Graci Brito-Madurro¹; ¹Universidade Federal de Uberlândia

H-P121 Complexation Dendrimer-Drug: Qualitative Analysis By Infrared Spectroscopy

Kamila Rotolo Mussarelli, Ana Cláudia da Cunha Depaoli, Mirela Cardoso Garcia, Maria Virgínia Costa Scarpa¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara

H-P122 Development and Characterization Of Chitosan/gelatin Film For Treatment Of Burns

Bianca Pereira Genesi¹, Cristiana Maria Pedroso Yoshida¹, Patrícia Santos Lopes¹, Classius Ferreira da Silva¹; ¹Universidade Federal de São Paulo

H-P123 Extraction, Separation and Characterization Of The Extracellular Hemoglobin Amyntas Gracilis (Hbag) With Potential Application As Biondicator Of Soil Contamination.

Patrícia Soares Santiago¹, Jonathan Brito¹, Angela Dias Prisca¹, Giovana Bertini¹, José Wilson Pires Carvalho², Francisco Adriano Oliveira Carvalho², Marcel Tabak²; ¹Campus Experimental de Registro, ²Instituto de Química de São Carlos

H-P124 Thermal Behavior Of The Hdpe/chitosan Blends

Maria Gomes Araújo, Danilo Siqueira Diniz, Eliton Souto Medeiros, Laura Hecker de Carvalho, Suédina Maria Lima Silva, Itamara Farias Leite

H-P125 Use Of Gold Nanoparticles Onto Graphite Electrodes Modified With Polymer For Application In Biosensors

Thalles Douglas Silva¹, Larissa Pereira Caetano¹, Kellen Cristina Torres Costa, Ana Graci Brito-Madurro¹, João Marcos Madurro; ¹Universidade Federal de Uberlândia

H-P126 Phytochemical Screening and Antimicrobial Activity Of Amasonia Campestris Aubl. Moldenke Roots.

Glenda Quaresma Ramos¹, Anderson Pena Costa¹, Elizabeth Viana¹, Henrique Duarte da Fonseca Filho¹; ¹Universidade Federal do Amapá

H-P127 Fracture Toughness Of Adhesive Systems On Tooth-Restoration Interface

Roberta Amorim Gonçalves¹, Luiz Carlos Pereira², Marcos Venícius Pereira¹; ¹Pontificia Universidade Catolica-Rio, ²Universidade Federal do Rio de Janeiro

H-P128 Novel Scaffold For Bone Regeneration Compound Of The Hydroxyapatite, Simvastatin and Galactomanan

Elayne Valério Carvalho¹, Anderson Valério Chaves¹, Natália Dantas Gomes de Souza¹, Victor Moreira da Costa, Manuela Chaves Loureiro Cândido, Davino Machado Andrade Neto, Denis Valony Martins, Pierre Basílio Almeida Fechine; ¹Universidade Federal do Ceará

H-P129 Influence Of Ph and Concentration Of Chitosan In Aqueous Solution In The Aggregation Of Gold Nanoparticles

Marina Paz Hyppólito¹, Erick Guimarães França, Carlos Alberto Oliveira; ¹Universidade Federal de Uberlândia

H-P130 Synthesis Of Octacalcium Phosphate (Ocp), Dicalcium Phosphate Dihydrate (Dcpd) and Inoculation Of Chitosan Matrix For Application In Bone Regeneration

Manuela Chaves Loureiro Cândido, Davino Machado Andrade Neto, Elayne Valério Carvalho, Francisca Amanda Chaves Cardoso, Anderson Valério Chaves¹, Victor Moreira da Costa, Natália Dantas Gomes de Souza¹, Denis Valony Martins, Pierre Basílio Almeida Fechine; ¹Universidade Federal do Ceará

H-P131 Influence Of Controlled Release Of Ciprofloxacin In Cell Culture Employing Natural Rubber Latex As Carrier

Rachid Évora dos Santos¹, Guilherme Jaques Ogawa, Bruno Henrique Oliveira, Valéria Marta Gomes de Lima, Rondinelli Donizetti Herculano; ¹Faculdade de Ciências e Letras. Unesp - Assis

H-P132 Graphene Oxide Composite and Conducting Polymer Films As A Multisensorial System For Acetone Detection

Ely Antonio Tadeu Dirani^{1,2}, Mauro Francisco Pinheiro da Silva¹, Marco Roberto Cavallari², Guilherme de Souza Braga^{2,3}, Leonardo Giordano Paterno⁴, Fernando Josepetti Fonseca²; ¹Pontificia Universidade Católica de São Paulo, ²Escola Politécnica de Universidade de São Paulo, ³Embrapa Instrumentação, ⁴Universidade de Brasília

H-P133 Photoactive Gold Nanoparticles For Application In Photodynamic Therapy Of Cancer

Joel Evandro Zibordi Ribeiro¹, Adjaci Fernandes Uchoa², Dayane Batista Tada¹; ¹Universidade Federal de São Paulo, ²Universidade Camilo Castelo Branco

H-P134 Development Of Plga Nanoparticles For Therapy Of Metastatic Melanoma

Carla Leandro dos Santos Medeiros¹, Denise C Arruda¹, Luiz Rodolpho Raja Gabaglia Travassos¹, Dayane Batista Tada¹; ¹Universidade Federal de São Paulo

H-P135 Preparation and Dynamic-Mechanical Properties Of Poly(Lactic Acid)/graphene Based Nanocomposites

Diego de Holanda Saboya Souza, Cristina Tristão Andrade, Marcos Lopes Dias

H-P136 Nanocomposites Of Al₂O₃-ZrO₂ For Dental Applications

Felipe de Carvalho Zavaglia¹, Sandra Maria Santos Oliveira Araújo², Cecília Amélia de Carvalho Zavaglia¹; ¹Universidade Estadual de Campinas, ²Instituto Federal de Educação Ciência e Tecnologia do Pará, Belém

H-P137 Effect Of Addition Of Nanocellulose On Chitosan/silver Nanoparticles Membranes

Rossana Mara da Silva Moreira Thiré¹, Daniel Cabral Ribeiro Ferro¹, Jorge Felipe Ramos Pontes^{1,2}, Fabiano Vargas Pereira³, Anayancy Osorio-Madrado, Marie-Pierre Laborie; ¹Universidade Federal do Rio de Janeiro, ²Albert-Ludwigs-Universität Freiburg, ³Universidade Federal de Minas Gerais

H-P138 Cucurbituril As Sequestering Agent Of Cholesterol :evaluation In Biomembrane Models Systems

Camila Bussola Tovani¹, João Francisco Ventrici de Souza², Thiago de Souza Cavallini², Grégoire Jean-François Demets², Amando Ito², Marina Berardi Barioni², Wallance Moreira Pazin², Maria Elisabete Darbello Zaniquelli²; ¹Universidade de São Paulo, ²Faculdade de Filosofia Ciências e Letras de Ribeirão Preto

H-P139 Nitric Oxide-Releasing Alginate/chitosan Nanoparticles Forbiomedical Applications

Nidia Ayumi Kitice¹, César Armando Contreras Lancheros², Sueli Fumie Yamada Ogatta², Adelia Maria Narciso¹, Amedea Barozzi Seabra¹; ¹Universidade Federal de São Paulo, ²Universidade Estadual de Londrina

H-P140 Nanocomposite Based On The Intercalation Of Clays In Urea-Formaldehyde Matrixes, Applied As High Strength Fertilizers

Cíntia Fumi Yamamoto¹, Cauê Ribeiro Oliveira¹, Luiz Henrique Capparelli Mattoso¹; ¹Embrapa Instrumentação

H-P141 Evaluation Of The Polymerization Shrinkage In Experimental Dental Composite Filled With Nanoscale Layered Silicates

Luiza Mello de Paiva Campos¹, Duclerc Fernandes Parra¹, Mário Ramalho de Vasconcelos², Ademar Benévolo Lugão¹; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp, ²School Of Dental Medicine, University Of Porto

H-P142 Study Of Cpti Implants With Surfaces Modified By Laser Beam With and Without Chemical Deposition Of Apatite: Topographical, Biomechanics and Histometric Analysis

Antonio Carlos Gustaldi¹, Fernando Pozzi Semeghini Guastaldi², Anahi Herrera Aparecida¹, Rogerio Margonar³, Francisley Avila Souza², Thallita Pereira Queiroz³; ¹Instituto de Química - Unesp/car, ²Universidade Estadual Paulista, ³Centro Universitário de Araraquara

H-P143 Blends Of Polylactic Acid and Native Wheat Starch By Extrusion/injection Molding Processes

João Domingos Augusto dos Santos Pereira, Daniel Velasco Nieto¹, Alberto Lopez Gil¹, Miguel Angel Rodríguez-Pérez¹, Carlos José Leopoldo Constantino²; ¹Universidad de Valladolid, ²Fct-Unesp Campus de Presidente Prudente

H-P144 Glass-Like Behavior Of Aminoacids: The Case Of L-Cysteine

Thamires Andrade Lima¹, Mariana Sayuri Ishikawa¹, Herculano da Silva Martinho¹; ¹Universidade Federal do Abc

H-P145 Myoglobin Adsorption On Zinc-Hydroxyapatite

Elena Mavropoulos Oliveira Tude¹, Andréa Machado Costa², Melissa Leitão¹, Marcelo Neves Tanaka¹, Marcelo Henrique Prado da Silva², Alexandre Malta Rossi¹; ¹Centro Brasileiro de Pesquisas Físicas, ²Instituto Militar de Engenharia

H-P146 Study Of The Drug Release Profiles From A Phema-Based Hydrogel With Liposome-Based Coatings

Patrizia Paradiso, Raquel Cardoso Galante, José Luís Mata, Rumem Krastev¹, Rogério Colaço, Benilde Saramago, Ana Paula Serro; ¹Natural and Medical Sciences Institute, University Of Tuebingen

H-P147 Role Of Water Clusters In The Physical/biochemical Properties Of Macromolecules and Biosystems

Herculano Silva Martinho¹; ¹Universidade Federal do Abc

H-P148 Mechanisms Of Relaxation Of Water Confined and Structure Characterization Of Diphenylalanine Nanotubes By Raman Scattering

Paula Maria Gabriela Leal Ferreira¹, Sergio Kogikoski Junior, Wendel Andrade Alves, Fabio Furlan Ferreira, Herculano da Silva Martinho; ¹Universidade Federal do Abc

H-P149 Microstructural and Physical Characterization Of Ha – TiO₂ Composite Applied By Plasma Spray For Coating In Ti-6Al-4V

André Gustavo de Sousa Galdino¹, Renan Carreiro Rocha¹, Marcelo Lucas Pereira Machado¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo

H-P150 Electrochemical Behaviour Of Laser Marking Parameters For Astm F139 Stainless Steel In Albumin Solution

Eurico Pieretti, Fernando Jose Baratela¹, Olga Zazuco Higa¹, Rosele Lima Yamaguti¹, Mauricio Martinez Das Neves¹, Isolda Costa¹; ¹Instituto de Pesquisas Energéticas e Nucleares

H-P151 Ultrafast One-Pot Synthesis Of Au Nanoparticles By Using Reducing Peptides Associated To Polyethyleneglycol

Iseli Lourenço Nantes¹, Alexandre José de Castro Lanfredi¹, Aryane Tofanello Souza¹; ¹Universidade Federal do Abc

H-P152 Subtissue Thermal Sensing Based On Neodymium-Doped LaF₃ Nanoparticles

Carlos Jacinto da Silva¹, U. Rocha, I. Guedes, E Bovero, F.c. J.m. Van Veggel, M. A. Elias, A. Benayas, J. Garcia-Sole, D. Jaque; ¹Universidade Federal de Alagoas

SYMPOSIUM I

Biohybrids and biomaterials

ORAL SESSIONS

* Invited Lecture

WEDNESDAY, OCTOBER 02

SESSION OS9-7 (09:30 - 10:30)
ROOM: 7

09:30 I-O1*

Tuning Cell Material Interactions For Biomedical Applications

Martin D. Desimone¹; ¹Universidad de Buenos Aires

10:10 I-O2

Assessment Of Crystal Structure Of Hydroxyapatite By Rietveld Refinement In Normal, Osteopenic and Osteoporotic Human Bones

Ricardo Simionato Boffa¹, João Manuel Domingos de Almeida Rollo¹, Reinaldo Cesar¹, Tomaz Puga Leivas²; ¹Universidade de São Paulo, ²Faculdade de Medicina da Universidade de São Paulo

PROGRAM

SESSION OS10-7 (10:50 - 12:30)
ROOM: 7

10:50 I-O3

Structure and Properties Of Hydrophilic Nhaph/carbon Nanotubes/pdlla Scaffolds For Osteochondral Tissue Engineering Applications
Idalia A.w.b. Siqueira¹, Eliane Antonioli², Fernanda Roberta Marciano¹, Anderson Oliveira Lobo¹; ¹Universidade do Vale do Paraíba, ²Instituto de Pesquisa e Educação Albert Einstein

11:10 I-O4

Study Of Interactions Between Natural Rubber (Nr) and Calcium Phosphate(Ca/p) Particles
Rodney Marcelo Nascimento¹, Fabricio Luiz Fanta, Ivan Helmuth Bechtold, Francisco E.g. Guimaraes; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

11:30 I-O5

Biological Studies Of Nanohydroxiapatite/superhydrophilic Carbon Nanotubes Composites
Nelly Leite¹, Idalia A.w.b. Siqueira¹, Evaldo José Corat², Cristina Pacheco-Soares¹, Fernanda Roberta Marciano¹, Anderson Oliveira Lobo¹; ¹Universidade do Vale do Paraíba, ²Instituto Nacional de Pesquisas Espaciais

11:50 I-O6

Obtaining Biogenic Aragonite As Raw Material For Osteogenic Bone Implants
Arthur Corrêa de Almeida¹, Eloá Assis Teodoro, Arnaldo Filho Nakamura¹, Helen Mota¹, Marcela David Carvalho, Antônio Valadão Cardoso^{2,1}; ¹Centro de Bioengenharia de Espécies Invasoras de Hidrelétricas, ²Universidade do Estado de Minas Gerais

12:10 I-O7

Immobilization Of Peptides On Lignin Films
Bianca Machado Cerrutti¹, Marli Leite de Moraes¹, Sandra Helena Pulcinelli¹, Celso Valentim Santilli¹; ¹Instituto de Química de Araraquara - Unesp

SESSION OS11-7 (15:00 - 16:20)
ROOM: 7

15:00 I-O8

Toxicity Of Carbon Nanotube and Cellulose Nanofiber To Chorella Vulgaris Green Algae
Michele Munk Pereira¹, Alice da Rocha², Ludovic Mouton², Claude Yéprémian³, Nádia Rezende Barbosa Raposo, Humberto de Melo Brandão⁴, Roberta Brayner⁵; ¹Universidade Federal de Juiz de Fora, ²Université Paris Diderot 7, ³Muséum National D'Histoire Naturelle, ⁴Embrapa Gado de Leite, ⁵Université Paris Diderot

15:20 I-O9

Osteoblastic Cells Viability On Titanium Surfaces Modified With Biomimetic Films
Israel Donizeti de Souza¹, Amanda de Faria¹, Daniela Cervele Zancanela¹, Ana Maria Sper Simão¹, Pietro Ciancaglini¹, Ana Paula Ramos¹; ¹Universidade de São Paulo

15:40 I-O10

Phytochemical Analysis Of The Stryphnodendron Sp. Extract Incorporated In Natural Rubber Latex (Nrl)
Karoline Mansano Romeira, Felipe Azevedo Borges, Bruno Camargo Drago¹, Luis Felipe Cesar Bolognesi², Rondinelli Donizetti Herculanio; ¹Universidade Estadual Paulista, ²Universidade Estadual Paulista Júlio de Mesquita Filho

SESSION OS12-7 (16:40 - 18:20)
ROOM: 7

16:40 I-O11

ZnAl2O4:eu³⁺ - Toxicological Analysis Of A Potential Luminescent Marker For Gsr
Marcella Auxiliadora de Melo Lucena¹, Severino Alves Junior¹, Marcelo Oliveira Rodrigues², George Chaves Jimenez³, Márcio Talhavine⁴, Ingrid Távora Weber²; ¹Universidade Federal de Pernambuco, ²Universidade de Brasília, ³Universidade Federal Rural de Pernambuco, ⁴Departamento da Polícia Federal

17:00 I-O12

Protein Based Nanocarriers For Drug Delivery
Gustavo H.c. Varca¹, Gabriela Garrido Perossi¹, Mariano Grasselli², Monica Beatriz Mathor¹, Patricia Santos Lopes³, Ademar Benévolo Lugão¹; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp, ²Universidad Nacional de Quilmes, ³Universidade Federal de São Paulo

17:20 I-O13

Study On The Effects Of Concentration Of Citrate Ions In The Self-Assembly Of Gold Nanoparticles At The Surface Of P. Macrosporus Biotemplate
Adriana Machado Fontes¹, Regina Maria Geris dos Santos¹, Marcos Malta dos Santos¹; ¹Universidade Federal da Bahia

17:40 I-O14*

Correlation Of Composition and Structure Of Shark Teeth
Oleg Prymak¹; ¹Institute Of Inorganic Chemistry and Center For Nanointegration Duisburg-Essen

THURSDAY, OCTOBER 03

SESSION OS13-7 (09:30 - 10:50)
ROOM: 7

09:30 I-O15

Biophysical Properties Of Dendritic Polyglycerol Coupled Chlorophyll For Photodynamic Therapy

Luciana Verissimo Militão¹, Alvaro Alencar Queiroz¹; ¹Universidade Federal de Itajubá

09:50 I-O16

Polymer/silica Hybrids For Use In Tissue Engineering

Marcele Fonseca Passos¹, Maria Ingrid Rocha Barbosa¹, Rubens Maciel Filho¹; ¹Universidade Estadual de Campinas

10:10 I-O17

Bandages Of Natural Polymers Prepared In Infusion Of Chamomile and Peppermint For Oral Applications

Thais Gonzalez Garcia¹, Cheung Lai Yee¹, Michel Jacques Florent Bourgeois², Ervin Sriubas Junior¹, Sirlene Maria da Costa¹, Silgia Aparecida Costa¹; ¹Escola de Artes, Ciências e Humanidades, ²École Nationale Supérieure Des Arts Et Industries Textiles

10:30 I-O18

Study Of Cellular Uptake Of Gold Nanoparticles By Transmission Near-Field Scanning Optical Microscopy

Odón Aréstegui Sierra, Rafael Vital dos Santos, Laís Costa Agra, Samuel Teixeira de Souza, Jandir Miguel Hickmann, Emiliano de Oliveira Barreto, Eduardo Jorge da Silva Fonseca

POSTER SESSION

TUESDAY, OCTOBER 01

SESSION PS2 (16:40 - 18:00)
ROOM: Poster Session**I-P1 Electrochemical Characterization Of Designed Ti-10Mo-20Nb Alloy**

Sinara Borborema Gabriel^{1,2,3}, Iranildes dos Santos², Achilles Junqueira Bourdot Dutra², Carlos Angelo Nunes⁴, Luiz Henrique de Almeida²; ¹Universidade do Estado do Rio de Janeiro, ²Universidade Federal do Rio de Janeiro, ³Centro Universitário de Volta Redonda, ⁴Universidade de São Paulo

I-P2 Physico-Chemical Analysis Of Biolubricants By Epoxidation Reaction

Marinalva Ferreira Trajano¹, Edja Iandeyara Freitas Moura, Marcos Vinycius de Araújo Oliveira., Kandice Suane Barros Ribeiro, Salete Martins Alves; ¹Universidade Federal do Rio Grande do Norte

I-P3 Zirconia Abutment Injection For Dental Use

Marcio Florian¹, Valdemir dos Santos, Carlos Alberto Alves Cairo², Cesar Eduardo Bellinati; ¹Universidade Tecnológica Federal do Paraná, ²Instituto de Aeronáutica Espaço

I-P4 Cobalt Ferrite Nanoparticles For Treatment Of Type II Diabetes

Jackeline da Costa Maciel¹, Priscyla Lima de Andrade¹, Mariana Paola Cabrera¹, Valdeene Albuquerque Jansen da Silva¹, Maria da Paz Carvalho da Silva¹, Luiz Bezerra de Carvalho Júnior¹, Jose Albino Aguiar¹; ¹Universidade Federal de Pernambuco

I-P5 Polyaniline Doped Magnetic Nanoparticles For Proteomics

Jackeline da Costa Maciel¹, Mariana Paola Cabrera¹, David Fernando Moraes Neri², Maria da Paz Carvalho da Silva¹, Luiz Bezerra de Carvalho Júnior¹; ¹Universidade Federal de Pernambuco, ²Fundação Universidade Federal do Vale do São Francisco

I-P6 Nanoparticle Production By Silica-Entrapped Photosynthetic Organisms: A "living" Bio-Hybrid Material

Roberta Brayner¹, Clemence Sicard, Alain Couté, Fernand Fiévet, Jacques Livage, Thibaud Coradin; ¹Université Paris Diderot

I-P7 Evaluation Of Adsorption Of Ethinylestradiol In Chitosan Beads By Infrared Spectrophotometric And Scanning Electron Microscopy

Sandra Regina Silva¹, Ezequiel de Souza Costa Júnior; ¹Centro Federal de Educação Tecnológica de Minas Gerais

I-P8 Development Of Microspheres Of Calcium Phosphate Cement Based On Water-Oil Emulsification

Caroline de Oliveira Renó¹, Mariana Motisuke¹; ¹Universidade Federal de São Paulo

I-P9 Ag(I)-Nimesulide/ β -Cyclodextrin Inclusion Systems: Studies In Solution and In The Solid State
Fernando Rodrigues Goulart Bergamini¹, Raphael Enoque Ferraz de Paiva¹, Camilla Abbehausen¹, Andre L Thompson¹, Danilo Antonini Alves¹, Marcelo Lancellotti¹, Pedro Paulo Corbi¹; ¹Universidade Estadual de Campinas**I-P10 Evaluation Of Ciprofloxacin and Magnetic Nanoparticles Delivery System Employing Natural Latex Membranes As Carrier**

Camila Betterelli Giuliano¹, Rondinelli Donizetti Herculano¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

I-P11 Carbon Nanotube and Cellulose Nanofiber: Ecotoxicological Effects

Michele Munk Pereira¹, Alain Couté², Luiz Orlando Ladeira³, Luiz Capparelli Mattoso⁴, Nádia Rezende Barbosa Raposo¹, Humberto de Melo Brandão⁵, Roberta Brayner⁶; ¹Universidade Federal de Juiz de Fora, ²Université Paris Diderot 7, ³Universidade Federal de Minas Gerais, ⁴Embrapa Instrumentação, ⁵Embrapa Gado de Leite, ⁶Université Paris Diderot

I-P12 Study Of The Conditions For The Preparation Of Membranes Of Cellulose Acetate and Chitosan

Juliane Araujo Lima¹, Mariana de Melo Brites¹, Silgia Aparecida Costa¹, Sirlene Maria da Costa¹; ¹Escola de Artes, Ciências e Humanidades

I-P13 Development and Characterization Of Polymeric Composites Based On Poly (Lactic Acid) and Wood Fiber

Alessandra Luiza de Lemos¹, Ricardo Martins de Martins¹; ¹Universidade Feevale

I-P14 Sem Images and Xrd Phase Determination Of Synthesized Hydroxyapatite From Precipitation Method

Adilson Claudio Quizunda¹, Adilson Cláudio Quizunda¹, Girusa Rosa Pena Vieira¹, Marilza Sampaio Aguilar¹, José Brant de Campos; ¹Universidade Estácio de Sá

I-P15 Influence Of Maleic Anhydride On Polyaniline (Doped With Dodecylbenzenesulfonic Acid) and Ethylene Propylene Rubber Blends

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I-P16 Influence Of Grain Size On The Quantification Of Iron Beneficiation Products, Pedra Branca Mine/amapá, By Rietveld Method

Felipe Barros Silva, Oscar Choque Fernandez

I-P17 Electroinitiated Polymerization Of 2-Hydroxyethyl Methacrylate

Ana Eliza Costa¹, Charlene Aparecida Ribeiro¹, Maria Elena Leyva¹; ¹Universidade Federal de Itajubá

I-P18 Development Of An Automated Electrospinning System For Polymeric Scaffolds Production

Thiago Reinaldos Silva¹, Kelliton J.m. Francisco¹, Patrícia Targon Campana¹; ¹Universidade de São Paulo

I-P19 Electrochemical Impedance Study Of The Ti-8Si In 30% Ethylene Glycol In 3.5% NaCl

Andreia Suemi Utiyama¹, Haroldo Marques Gonçalves¹, Ivan Ramires¹; ¹Fundação Universidade Federal da Grande Dourados

I-P20 Electrochemical Characterization Of Electroactive Hybrid Hydrogels.

Charlene Aparecida Ribeiro, Mateus Coli, Maria Elena Leyva¹; ¹Universidade Federal de Itajubá

I-P21 Mechanical Properties Of Anodic Layers Of TiO₂

Aline Rossetto da Luz¹, Carlos Eugenio Foerster¹, Neide Kazue Kuromoto¹, Fabio Adhemar da Silva Rahal¹; ¹Universidade Federal do Paraná

I-P22 Influence Of Acid Concentration and Contact Time On The Activation Of Paligorsquita

Maria do Socorro Ferreira dos Santos¹, Edson Cavalcanti da Silva Filho¹, Maria Rita de Moraes Chaves Santos¹, Maria Wilma Nunes Cordeiro Carvalho², Katiane Cruz Magalhães Xavier³; ¹Universidade Federal do Piauí, ²Universidade Federal de Campina Grande, ³Centro de Tecnologia Mineral

I-P23 Factorial Design For Optimization Of The Content Combustionin The Coking Process Of Heat Recovery Technology

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I-P24 Development Of Chitosan/gelatin Membranes and Theinfluence Of The Glycerin Addition and The Crosslinkingprocess In The Tumescence Of The Membranes

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I-P25 Constructos Chitosan-Sodium Alginate Crosslinked With Calcium Chloride For Potential Application In The Recovery Of Skin Lesions

Jacqueline Cavalieri Nery¹, Ezequiel de Souza Costa Júnior¹; ¹Centro Federal de Educação Tecnológica de Minas Gerais

I-P26 Luminescent Water-Soluble Lanthanide Complex With Possible Applications On “bio-Sensors”

Gabriela Zanotto Bosshard¹, Jorge H. S. K. Monteiro¹, Ana de Bettencourt-Dias², Fernando Aparecido Sigoli¹; ¹Universidade Estadual de Campinas, ²University Of Nevada Reno

I-P27 Development and Characterization Of Films Time-Temperature Indicators From Chitosan/pva and Anthocyanins Applied To Smart Packaging

Valdir Aniceto Pereira Junior¹, Iza Natália Queiroz Arruda¹, Genilza da Silva Mello¹, Suzanny Drielle Leonel Pereira¹, Adriano Buzutti Siqueira, Ricardo Stefani; ¹Universidade Federal de Mato Grosso

I-P28 Preparation and Characterization Of Gelatin Microparticles With Incorporated Rutin

Gabrielle Lázara Ribeiro Rodrigues de Barros Vinhal¹, Elizabeth Luiza Almeida, Diego Vinícius Nascimento, Ricardo Stefani; ¹Universidade Federal de Mato Grosso

I-P29 Hydroxyapatite Coating By Simulated Body Fluid Solution On Titanium and Stainless Steel Used In Implants

Mariny Fabiéle Cabral Coelho¹, Maria Eurenice Cronemberger¹, Neide Aparecida Mariano¹, Eliana Cristina da Silva Rigo²; ¹Universidade Federal de Alfenas, ²Universidade de São Paulo

I-P30 Production and Characterization Of Ti-Nb-Ta's Alloys, Using Powders Obtained By Hdh Process Aiming The Development Of Biomaterials

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I-P31 Biocomposites From Gum Arabic and Bacterial Cellulose

Caroline Ezequiel de Paulo da Silva¹, Aline Grein, Francine Valenga, Maria- Rita Sierakowski, Izabel Cristina Riegel Vidotti; ¹Universidade Federal do Paraná

I-P32 Epoxy Polymers Coatings Of 316L Stainless Steel For Coronary Stents

Andrés Felipe Pineda, Filiberto Gonzalez García

I-P33 In Vitro Study Of Chitosan and Fish Scale-Based Membranes Loaded With Tetracycline Designed For Sustained Release In Therapy Of Periodontitis

Gracy Karla da Rocha Cortes, Eunice Fragoso da Silva Vieira, Renata Almeida Chagas, Antonio Reinaldo Cestari

I-P34 Study Of The Preparation Of Hydroxyapatite By Calcination Of Bones Using Thermal Analysis

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I-P35 The Interaction Among Mesenchymal Stem Cells and Pcl Scaffolds Made By The Rapid Prototyping Method

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I-P36 Influence Of The Ultrasonic Irradiation and Microwave On The Production Of Hap / Mwcnt Nanocomposites By Wet Chemical Synthesis

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I-P37 Study On Morphology Of Electrospun Polycaprolactone Nanofibers

João Vitor da Silva Moreira¹, Tatiane Venturott Toniato, Fernanda Roberta Marciano, Anderson Oliveira Lobo; ¹Universidade do Vale do Paraíba

I-P38 Cell Response For Surface Modification Of Polyurethane and Poly(Sulfone) Films By Uv-Assisted Treatment

Felipe Kessler¹, Daniela Steffens¹, Gabriela Albara Lando¹, Patricia Pranke^{1,2}, Daniel Eduardo Weibel¹; ¹Universidade Federal do Rio Grande do Sul, ²Instituto de Pesquisa Com Células-Tronco

I-P39 Ft-Ir Characterization Of Chitosan-Poly(Vinyl Alcohol) (Pva) Blend Film Doped With Amoxicillin For Controlled Drug Delivery

Diego Vinícius Nascimento¹, Rayzah Teodoro de Oliveira¹, Elizabeth Luiza Almeida¹, Gabrielle Lázara Ribeiro Rodrigues de Barros Vinhal¹, Ricardo Stefani¹; ¹Universidade Federal de Mato Grosso

I-P40 Bioactivity Studies Of Titanium Surfaces Modified With Langmuir -Blodgett Films Containing Calcium Carbonate

Marcos Eufrásio Cruz¹, Israel Donizeti de Souza, Ana Paula Ramos; ¹Universidade de São Paulo

I-P41 immobilization Of Tyrosinase On Carbon Ceramic Used As Sensor For Dopamine

Monique Deon¹, Elisangela Muncinelli Caldas¹, Tânia Maria Haas Costa¹, Eliana Weber de Menezes¹, Silvio Luis Pereira Dias¹, Leliz Ticona Arenas¹, Edílson Valmir Benvenuti¹; ¹Universidade Federal do Rio Grande do Sul

I-P42 Cell Adhesion Onto 3D Tips Plla Scaffolds With and Without Ceo2: In Attempt To Increasing Cell Survival

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I-P43 Thermogravimetric Analysis Of Ultra High Molecular Weight Polyethylene/ascorbic Acid

Vanessa Castro de Souza¹, Lucineide Balbino Silva; ¹Universidade Federal da Paraíba

I-P44 Production Of Aligned Porous Bioabsorbable Polymericfibers With Incorporated Carbon Nanotubes Through Rotaryjet-Spinning

Marco Vieira Grinet¹, Vagner Eduardo Caetano Marques², Evaldo José Corat, Fernanda Roberta Marciano¹, Anderson Oliveira Lobo¹; ¹Universidade do Vale do Paraíba, ²Instituto Nacional de Pesquisas Espaciais

I-P45 Steady-State Fluorescence Spectroscopy Studies Of Bsa/ Polyfluorene: The Influence Of Ph On Equilibrium Conformation

Leandro Petrini Junior¹, Patricia Targon Campana¹, Paulo Alliprandini Filho^{1,2}, Alexandre Marletta^{3,1}, Osvaldo Novais Oliveira Jr¹; ¹Universidade de São Paulo, ²Instituto de Física de São Carlos, ³Universidade Federal de Uberlândia

I-P46 Electrospinning Of Polycaprolactone With β -Tricalcium Phosphate Incorporated

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I-P47 Biom mineralization Of Hap/vamwcnt-O₂ Nanocomposites

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I-P48 Syntheses and Characterization Of Poly 3-Hexyl-Thiophene Acetate and Blends Production With Phbv: Proposal Application In Tissue Engineering

Mariana Silva Recco¹, Mateus Sousa Franco¹, Maurício Pinheiro de Oliveira¹, Adjaci Uchôa Fernandes², Fernando Henrique Cristovan¹; ¹Universidade Federal de São Paulo, ²Universidade de São Paulo

I-P49 Synthesis and Characterization Of The Amphiphilic Poly(ϵ -Caprolactone)-B-Poly(N-Vinylcaprolactam) Block Copolymer

Graziele Aparecida de Jesus Aguiar¹, Simone de Fátima Medeiros¹, Amilton Martins dos Santos¹; ¹Escola de Engenharia de Lorena

I-P50 Citotoxicity Study Of Gold-Incorporated Diamond-Like Carbon Films

Ciliana Antero Guimarães da Silva Oliveira¹, Gislene Rodrigues Silva, Laís Souza Vieira, Marina Fernandes Stein, Leandro José Raniero, Vladimir Jesus Trava-Airoldi, Newton Soares Silva, Anderson Oliveira Lobo¹, Fernanda Roberta Marciano; ¹Universidade do Vale do Paraíba

I-P51 Piplartine Incorporation In Nizn/pf Magnetoliposome For Drug Delivery and Hyperthermia

Rafael Melo Freire, Tamara Gonçalves, Juliano Casagrande Denardin, Otilia Desdênia Loiola Pessoa, Nágila Maria Pontes Silva Ricardo, Selma Elaine Mazzetto, Pierre Basílio Almeida Fechine

I-P52 Polymeric Nanocomposite Base On Biopolymer Modified With Nanofillers Ha and Tio₂

Viviane Coelho Duarte¹, Neftalí Lenin Villarreal Carreño¹, César Antonio Oropesa Avellaneda¹, Ananda Morais Barbosa¹, Gabriele Campbell Link¹, Igor José Cherubin¹, Fernanda Nedel¹, Rafael Guerra Lund¹, Sônia Luque Peralta¹; ¹Universidade Federal de Pelotas

I-P53 Study Of The Behaviour Of Açaí Palm Fruit (Euterpe Oleracea) And Curauá (Ananas Lucidus) After Alkaline Treatment and The Effect Of The Use Of Sodium Borohydride As A Protective Agent For The Fibers

Larissa Rossi Gehlen¹, Suelen Gonçalves de Souza², Elisane Koller², Ana Paula Testa Pezzin², Thais Sydenstricker Flores-Sahagun¹; ¹Universidade Federal do Paraná, ²Universidade da Região de Joinville

I-P54 Apatite Cement Containing Gelatin: A Preliminary Study To Produce Scaffolds

Verônica Ribeiro dos Santos¹, Caroline de Oliveira Renó¹, Mariana Motisuke¹; ¹Universidade Federal de São Paulo

I-P55 Superparamagnetic Porous Hydroxyapatite For Treatment Of Osteosarcoma

Taciane Pereira Costa¹, Rodrigo Costa Marques¹, Miguel Jafellicci Júnior¹; ¹Instituto de Química - Unesp/car

I-P56 Biodegradable Blends Based On Starch and Polycaprolactone For Packing Manufacturing

Luciane Calabria¹, Bianca Bangemann, Daniela Lupinacci Villanova, Melissa Dietrich da Rosa; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul

I-P57 Production Of Inox 316L/ Beta-Tricalcium Phosphate (β -Tcp) Biocomposite

Mônica Huguenin de Araújo Faria¹, Raphael Silva Copeiro¹, Dalton Garcia Borges Souza¹, Gilbert Silva¹; ¹Universidade Federal de Itajubá

I-P58 Evaluation Of Elastic Modulus Of Inox 316L/ β -Tcp Metal Ceramic Biocomposite

Mônica Huguenin de Araújo Faria¹, Raphael Silva Copeiro¹, Dalton Garcia Borges Souza¹, Gilbert Silva¹; ¹Universidade Federal de Itajubá

I-P59 Optical Microscopy Analysis Of Stainless Steel 316L With Porosity Controlled By The Addition Of Polyethylene Powder

Dalton Garcia Borges Souza¹, Rayana Fernanda Ribeiro Lourenço¹, Gilbert Silva¹, Gerson Avelino Fernandes¹; ¹Universidade Federal de Itajubá

I-P60 Comparative Study Of The Properties Of Biodegradable Films Poly (Butylene Adipate-Terephthalate)-Ecoflex ® and Poly (Lactic Acid) - Pla

Leila Figueiredo de Miranda, Domingos Jafelice, Terezinha Jocelen Masson, Mauro Cesar Terence, Raquel Valério

I-P61 Characterization Of The Sustained Release For The C.sylvestris Swartz Extract Associated With Ciprofloxacinemploying Natural Latex Films As A Carrier.

Luis Felipe Cesar Bolognesi¹, Rondinelli Donizetti Herculano, André Gonzaga dos Santos, Elaise Gonçalves Pierri, Felipe Azevedo Borges, Nicola Carlucci Sato, Karoline Mansano Romeira²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Estadual Paulista "Júlio de Mesquita Filho"

I-P62 Preparation and Characterization Of Polyurethane With Different Quantities Of Baru Oil

Elizabeth Luiza Almeida¹, Gabrielle Lázara Ribeiro Rodrigues de Barros Vinhal¹, Larissa Costa Almeida, Gilberto Alexandre Soares Goulart, Adriano Buzutti Siqueira; ¹Universidade Federal de Mato Grosso

I-P63 Biodegradable Polyurethane Based On Poly(Ethylene Glycol)-Poly(ε-Caprolactone) Used As Drug Delivery System

Carlos Alejandro Durán Guzmán¹, Lerida Liss Flores Villavicencio¹, Gerardo González García¹, Angel Marcos Fernández², Myrna Sabanero Lopez¹, Luis Manuel Orozco Castellanos¹; ¹Universidad de Guanajuato, ²Instituto de Ciencia Y Tecnología de Polímeros

I-P64 Blends Of Polyaniline With Poly (Hydroxybutirate-Co-Valerate) Aiming Scaffold Construction

David Caldas da Silva Junior¹; ¹Universidade Federal de São Paulo

I-P65 Temperature Influence In The Extract Release Of Casearia Sylvestris Using Nrlbiomembrane

Felipe Azevedo Borges, Luis Felipe Cesar Bolognesi¹, Karoline Mansano Romeira, Elaise Gonçalves Pierri, André Gonzaga dos Santos, Rondinelli Donizetti Herculano; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

I-P66 Influence Of Ultra-Sound On Crystallite Size Of Hydroxyapatite

Yasmim Carvalho Guimarães, Nigel Roderick Messmer, Michelle Chizzolini Barbosa¹, Vagner Eduardo Caetano Marques, Anderson Oliveira Lobo¹, Fernanda Roberta Marciano; ¹Universidade do Vale do Paraíba

I-P67 Degradation Of Porous Hybrids Pva/chitosan/ Bioactive Glass Obtained By Freeze Drying

Tais Licio Macedo¹, Agda Aline Rocha Oliveira¹, Marivalda Magalhães Pereira¹; ¹Universidade Federal de Minas Gerais

I-P68 Thermal and Spectroscopic Characterization Of Chitosan Films Doped With Rutin

Iza Natália Queiroz Arruda¹, Genilza da Silva Mello¹, Valdir Aniceto Pereira Junior¹, Ricardo Stefani; ¹Universidade Federal de Mato Grosso

I-P69 Preparation and Characterization Of Hydroxyapatite By Calcination Of Bones

Bruna Marques Dapieve¹, Luana Passamani de Moraes¹, Clóvis Eduardo Cereser¹, Olivio Bochi Brum¹, Loana Dal Carobo Sagrilo Bochi¹, Juan Carlo Villalba², Fauze Jacó Anaissi², Gustavo Leivas Barbosa¹, Marcelo Marques Tusi¹; ¹Universidade Regional Integrada do Alto Uruguai e Das Missões, ²Universidade Estadual do Centro-Oeste

I-P70 Inclusion and Chemical Modification Of Sugar Canebagasse Particles In Composites Plastics

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I-P71 Chemically Modified Chitosan With Glutaraldehyde In The Absence Of Solvent

Joelma Nunes Nunes¹, Maria Onaira Gonçalves Ferreira¹, Edson Cavalcanti da Silva Filho¹, Maria Rita de Moraes Chaves Santos¹; ¹Universidade Federal do Piauí

I-P72 Bioactive Textile Fibers Made Of Biopolymers

Agatha Carretero¹, Silgia Aparecida Costa, Sirlene Maria da Costa, Daniela Camargo Furuya²; ¹Universidade de São Paulo, ²Escola de Artes, Ciências e Humanidades, Universidade de São Paulo

I-P73 Magnetic Nanoparticles As Contrast Agents: Statistical Study Of The Main Variables That Influence The Synthesis

Mariana Paola Cabrera¹, Jackeline da Costa Maciel¹, Luiz Bezerra de Carvalho Júnior¹, Adriana Fontes¹, Giovannia Araújo Pereira¹; ¹Universidade Federal de Pernambuco

I-P74 Magnetic Nanohybrid As Matrix For Enzymes Immobilization Of Industrial Use

Mariana Paola Cabrera, Taciano França da Fonseca¹, Raquel Varela Barreto de Souza², Jackeline da Costa Maciel¹, Justiniano Quispe-Marcato³, Brajesh Pandey³, David Fernando Moraes Neri⁴, Fernando Soria⁵, Luiz Bezerra de Carvalho Júnior¹; ¹Universidade Federal de Pernambuco, ²Universidade de Pernambuco, ³Centro Brasileiro de Pesquisas Físicas, ⁴Fundação Universidade Federal do Vale do São Francisco, ⁵Universidad Nacional de Salta

I-P75 Optimization Of Bone Cement Based On [Beta] Tricalcium Phosphate

Bruno Dias¹, Caroline de Oliveira Renó, Mariana Motisuke; ¹Universidade Federal de São Paulo

I-P76 Processing and Characterization Of 45S5 Bioglass Reinforced [Beta]-Tcp Scaffolds

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I-P77 Preparation and Characterization Of β -Tcp Scaffolds Reinforced By Calcium Silicate Whiskers
Cynthia Guimarães de Paula¹, Mariana Motisuke¹, Eliandra de Souza Trichês¹; ¹Universidade Federal de São Paulo

I-P78 Plastic Composites Reinforced With Chemically Treated Pinus Oocarpa Particles
Antônia Amanda da Silva César¹, Ricardo Gabriel de Almeida Mesquita¹, Lina Bufalino, Gustavo H. D. Tonoli¹, Lourival Marin Mendes¹, Rafael Farinassi Mendes¹, Gabriel Nogueira Machado¹, Cássio Augusto Ussi Monti; ¹Universidade Federal de Lavras

I-P79 Influence Of The Size Of Agglomerates Of Hydroxide Aluminum (Al(OH)₃) Particles In Porosity Of Alumina (Al₂O₃) Ceramics
Caroline Santos Leal¹, Fernando Vernilli Júnior¹, Daniela Camargo Vernilli^{2,1}; ¹Escola de Engenharia de Lorena - Usp, ²Faculdade de Pindamonhangaba

I-P80 Poly (ϵ -Caprolactone)/starch Blend Biodegraded By Activated Sludge.
Livia Cordi¹; ¹Universidade Estadual de Campinas

I-P81 Ti-5Mo-Xnb Alloys For Orthopaedic Applications By Laser Deposition
Odila Florencio¹, Carole Loable², Martim Teixeira², Amélia Almeida², Rui Mario Correia da Silva Vilar²; ¹Universidade Federal de São Carlos, ²Instituto Superior Técnico

I-P82 Comparison Between Aligned and Non-Aligned Electrospun Poly(Acid Lactic) Nanofibers
Tatiane Venturott Toniato¹, João Vitor da Silva Moreira¹, Anderson Oliveira Lobo¹, Fernanda Roberta Marciano¹; ¹Universidade do Vale do Paraíba

I-P83 Addition Effect Of Al(OH)₃ In Ceramics Based On Al₂O₃.
Luís Henrique Pizetta Zordão¹, Daniela Camargo Vernilli^{2,1}, Fernando Vernilli Júnior¹; ¹Escola de Engenharia de Lorena - Usp, ²Faculdade de Pindamonhangaba

I-P84 Effect Of Mg, Mn, Sr and Zn On The Bioactivity Of A SiO₂.CaO.Na₂O.P₂O₅ Bioglass System
Gilderman Silva Lázaro¹, Larissa Fernandes Ribeiro¹, Cristiane Xavier Resende¹, Euler Araujo dos Santos¹; ¹Universidade Federal de Sergipe

I-P85 Enzyme Nanoparticles As Bioactive Compounds For Biotechnological Applications
Gabriela Garrido Perossi, Gustavo H.c. Varca¹, Mariano Grasselli, Monica Beatriz Mathor, Patricia Santos Lopes, Ademar Benévolo Lugoão; ¹Nuclear and Energy Research Institute, Ipen-Usp/sp

I-P86 Femtosecond Laser Microdrilling To Produce Porous In Natural Rubber Latex Membranes For Drug Delivery
Marcos Roberto Cardoso¹, Gustavo Foresto B. Almeida¹, Cleber R. Mendonça¹, Leticia Leite Bernardes², Rondinelli Donizetti Herculano²; ¹Instituto de Física de São Carlos - Usp, ²Faculdade de Ciências e Letras. Unesp - Assis

I-P87 Boron Oxide Influence On Infiltration Process Of Glass Infiltrated Ceramic Composites
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I-P88 Drug Release Kinetic In Natural Rubber Latex Membrane Micromachined By Femtosecond Laser Pulses
Marcos Roberto Cardoso¹, Leticia Leite Bernardes², Gustavo Foresto B. Almeida¹, Cleber R. Mendonça¹, Rondinelli Donizetti Herculano²; ¹Instituto de Física de São Carlos - Usp, ²Faculdade de Ciências e Letras. Unesp - Assis

I-P89 Characterization Of Silk Fibroin Particles Calcified Process By Spraying Solution In Phosphate
Sergio Akinobu Yoshioka¹, Juliana Raquel Frigo Aciair¹; ¹Interunidades em Bioengenharia Eesc/fmrp/iqsc

I-P90 Synthesis and Characterization Of Amphiphilic and Biocompatible Poly (3-Hydroxybutyrate-Co-3-Hydroxyvalerate)-B-Poly (N-Vinylcaprolactam) Block Copolymers
Lucas Alves Dias Cardoso¹, Simone de Fátima Medeiros¹, Amilton Martins dos Santos¹; ¹Escola de Engenharia de Lorena - Usp

I-P91 Evaluation Of Peptides Release Using Natural Rubber Latex Biomembrane As Scaffold
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I-P92 Evaluation Of Microstructure Of Ti-7.5Mo Alloy After Simulation Of Conditions Forging
Maria Emilia Corrêa¹, Reginaldo Konatu, Ana Paula Rosifini Alves Claro; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

I-P93 Synthesis and Characterization Of Photoluminescent Magnetite/chitosan Nanocomposite
Victor Moreira da Costa¹, Danilo Caldas de Queiroz, Lilian Maria Uchoa Dutra¹, Pierre Basílio Almeida Fechine¹, Tiago Melo Freire¹; ¹Universidade Federal do Ceará

I-P94 Cellulose-Water Interaction Characterized By Thermal Analysis: Desorption Activation Energy Of Water and Degradation Of Cellulose.
Ricardo Klaus Kramer¹, Antonio Jose Felix Carvalho; ¹Universidade de São Paulo

I-P95 Photoluminescent Nanocomposites Obtained From Magnetite / Aptes System

Victor Moreira da Costa¹, Anderson Valério Chaves¹, Elayne Valério Carvalho¹, Denis Valony Martins Paiva¹, Manuela Chaves Loureiro Cândido¹, Eduardo José Jucá Mallmann¹, Natália Dantas de Souza¹, Pierre Basílio Almeida Fachine¹; ¹Universidade Federal do Ceará

I-P96 Characterization Of Polyaniline Doped and Non-Doped With Norbixin

Vicente Galber Freitas Viana, Antonio Luis Martins Maia Filho, Charlyton Luis de Sena Costa, Katharinne S. N. Teixeira, Anderson Oliveira Lobo, Mariana Helena Chaves, Deuzuita dos Santos Oliveira

I-P97 In Situ Liposome Solubilization

Carlos Eduardo Pinheiro Vieira¹, Ximena Elizabeth Puentes¹, Jean Marie Polli², Antonio Augusto Malfatti Gasperini², Leide Passos Cavalcanti²; ¹Universidade Federal de São Paulo, ²Laboratório Nacional de Luz Síncrotron

I-P98 Toxicity Of Barium Titanate Nanoparticles In Bovine Fibroblasts

Humberto de Melo Brandão, Juliana Carine Gern, Alessandro de Sa Guimarães, Roberta Brayner, Gustavo Terror Guelber, Mariana Machado, Saulo R Silva, Wanessa A Carvalho, Erica Bravo Sales¹; ¹Embrapa Gado de Leite

I-P99 Theoretical Study Of The B-Hematin Dimer Formation

Horácio Wagner Leite Alves¹, Larissa Mirelle Oliveira Pereira¹; ¹Universidade Federal de São João Del Rei

I-P100 Synthesis and Characterization Of Calcium Phosphates For Biomedical Applications

Yaymarilis Veranes¹, Antonio Carlos Gustaldi², Anahi Herrera Aparecida², Edson Almeida Filho², Amisel Almirall¹, José Angel Delgado¹, Mayté Paredes²; ¹Universidad de La Habana, Centro de Biomateriales, ²Instituto de Química Unesp Araraquara

I-P101 Diamond-Like Carbon Electrochemical Corrosion Resistance By Addition Of Nanocrystalline Diamond Particles For Biomedical Applications

Beatriz Campos Ramos¹, Eduardo Saito², Fernanda Cavalcante da Silva¹, Vladimir Jesus Trava-Airoldi², Anderson Oliveira Lobo¹, Fernanda Roberta Marciano¹; ¹Universidade do Vale do Paraíba, ²Instituto Nacional de Pesquisas Espaciais

I-P102 Bioabsorbable Polymeric Fibers As Support For Mesenchymal Stem Cell Adhesion

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I-P103 Chitosan Membranes Associated To Musa Cavendishii For Wound Healing - Part I: Extraction Of Unripe Banana Peel.

Patrícia Battaglini Franco, Leiliane Aparecida de Almeida, Edivaldo Aparecido Nunes Martins, Rodrigo Fernando Costa Marques, Maria Gabriela Nogueira Campos

I-P104 The Effect Of Gentamicin Sulfate On The Structural and Thermodynamic Properties Of A Bone Cement Mixed Manually.

Jeice Souza Ignacio

I-P105 Development Of Novel Nanocomposites Using Polymeric Nanofibers With Nanohidroxyapatite/carbon Nanotubes.

Patrícia Oliveira de Andrade¹, João Vitor da Silva Moreira², Ana Maria do Espirito Santo¹, Anderson Oliveira Lobo²; ¹Universidade Federal de São Paulo, ²Universidade do Vale do Paraíba

I-P106 Scaffold Of Phema Hydrogels Obtained By Biofabricated: Cell Viability On Mesenchymal Stem Cells Adipose Tissue

Lonetá Lauro Lima^{1,2}, Vanessa Petrilli Bavaresco^{2,3}, Ana Amélia Rodrigues^{1,2}, Nilza A Batista^{1,2}, Willian Dias Belangero^{1,2}, Cecília Amélia de Carvalho Zavaglia^{1,2}; ¹Universidade Estadual de Campinas, ²Inct em Biofabricação, ³Colégio Técnico de Campinas

I-P107 The Effect Of Coating On The Colloidal and Magnetic Properties Of Iron Oxides Nanoparticles

Graziele Aparecida de Jesus Aguiar¹, Victor Ferreira da Motta Lopes Fonseca¹, Simone de Fátima Medeiros¹, Amilton Martins dos Santos¹; ¹Escola de Engenharia de Lorena

SYMPOSIUM (J/K/M)

Damage Inspection – Techniques and Applications / X-ray Tomography and Radiography Imaging / Electron Microscopy: from micro to nanoanalysis

ORAL SESSIONS

* Invited Lecture

MONDAY , SEPTEMBER 30

SESSION OS1-15 (09:30 - 10:30) ROOM: 15

09:30 M-O1

Ferroelectric Domain Structure and Switching Investigation Of $(\text{Pb}_{0.79}\text{La}_{0.21})\text{TiO}_3$ Transparent Ceramics Through Piezoresponse Force Microscopy
André Marino Gonçalves¹, Fernando Andrés Londono¹, Ducinei Garcia¹, José Antônio Eiras¹; ¹Universidade Federal de São Carlos

10:10 M-O2

Atomic Force Microscopy Artifact Caused By High Forces

Thales Fernando Damasceno Fernandes, Bernardo Ruegger Almeida Neves

SESSION OS2-15 (10:50 - 12:30) ROOM: 15

10:50 K-O1

Principles Of Quantitative Analysis In Multi-Image Radiographs Of Bone-Biomaterial Integration
Sergio Luiz Morelhao¹, Marcelo Gonçalves Honnicke; ¹Universidade de São Paulo

11:10 K-O2

3D Characterization Of Defects In Underwater Wet Welds

Sidnei Paciornik¹, Luciana Ferreira Silva¹, Valter Rocha dos Santos¹, Nikhilesh Chawla², Braulio Soares Archanjo³; ¹Pontifícia Universidade Católica do Rio de Janeiro, ²Arizona State University, ³Instituto Nacional de Metrologia, Qualidade e Tecnologia

11:30 K-O3

High Resolution Synchrotron X-Ray Radiography and Tomography At The Imx Beamline (Lnls)

Frank Pierce O'dowd, Hugo Henrique Slepicka, Renan Ramalho Gerales, Augusta Cerceau Isaac

11:50 K-O4

Digital Rock Physics: Estimation Of Petrophysical Parameters From Microtomographic Images

Rodrigo Surmas, Andre Ferreira Bem Silva, Keijo Kalervo Mattila, Celso Peres Fernandes

SESSION OS3-15 (15:00 - 16:20) ROOM: 15

15:00 J-O1*

Characterization and Evaluation Of Resistance Spotweld Integrity Through Ndt Techniques

Danilo Stocco¹; ¹Associação Brasileira de Ensaios Não Destrutivos e Inspeção

15:40 J-O2

Evaluation Of Uv Damage On Pei/carbon Fiber Composites

Natassia Lona Batista¹, Koshun Iha², Edson Cocchieri Botelho¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp, ²Instituto Tecnológico de Aeronáutica

16:00 J-O3

Polymeric Films Degradation Analysis Subjected To Ionizing Radiation

Marcelo Girardi Schappo¹, Lucio Sartori Farenzena¹; ¹Universidade Federal de Santa Catarina

TUESDAY , OCTOBER 01

SESSION OS5-15 (09:30 - 10:30) ROOM: 15

09:30 M-O3*

Environmental Tem In Catalysis and Nanoparticle Research

Thomas W. Hansen¹, Jakob Birkedal Wagner¹; ¹Technical University Of Denmark / Danmarks Tekniske Universitet

10:10 M-O4**Coarsening Behavior Of Nanoparticles Embedded In Dielectric Substrates: Effects Of Ion and Electron Irradiation**

Paulo F. P. Fichtner¹, F. P. Luce¹, Mariana de Mello Timm¹, Cristiane Marin¹, Aline Tais da Rosa¹, Erwan Olivier², Z. E. Fabrim¹, Daniel Lorscheitter Baptista¹, Gustavo de Medeiros Azevedo¹; ¹Universidade Federal do Rio Grande do Sul, ²Centre de Spectrométrie Nucléaire Et de Spectrométrie de Masse

12:10 M-O9**Fabrication and Plasmon Mapping Study Of Template-Stripped Gold Pyramids As Scanning Near-Field Optical Microscopy Probes**

Thiago de Lourenço e Vasconcelos¹, Braulio Soares Archanjo¹, Luiz Gustavo Cancado², Bruno Santos de Oliveira¹, Carlos Achete¹, Wagner Nunes Rodrigues²; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Universidade Federal de Minas Gerais

**SESSION OS6-15 (10:50 - 12:30)
ROOM: 15****10:50 M-O5****Biogenic Magnetite Nanocrystals Studied By Transmission Electron Tomography**

Andrea Porto Carreiro Campos¹, Simona Moldovan², Ovidiu Ersen², Jacques Werckmann¹, Marcos Farina³; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Institut de Physique Et Chimie Des Matériaux de Strasbourg, ³Universidade Federal do Rio de Janeiro

11:10 M-O6**3D-Tem Investigation Of Calcium Phosphate Biomaterials and Biominerals For Medical Applications**

André Linhares Rossi, Marcos Farina, Jacques Werckmann

11:30 M-O7**Three-Dimensional Reconstruction Of Neurovascular Unit Using The Dual-Beam Microscope**

Wagner Nunes Rodrigues¹, Bruno Augusto Maciel Guedes¹, Rodrigo Ribeiro Andrade¹, Cristol de Paiva Gouveia², Braulio Soares Archanjo³, Elizabeth Ribeiro da Silva Camargos¹; ¹Universidade Federal de Minas Gerais, ²Instituto Nacional de Metrologia, Normalização e Qualidade Industrial, ³Instituto Nacional de Metrologia, Qualidade e Tecnologia

11:50 M-O8**Mechanisms Of Dose-Dependence Of The Density Of Inas Islands Grown On Focused Ion Beam Site-Selective Template**

Wagner Nunes Rodrigues¹, Rodrigo Ribeiro Andrade¹, Douglas Miquita¹, Rudy Kawabata², Maurício Pamplona Pires³, Patrícia Lustoza Souza²; ¹Universidade Federal de Minas Gerais, ²Pontifícia Universidade Católica do Rio de Janeiro, ³Universidade Federal do Rio de Janeiro

**SESSION OS7-15 (15:00 - 16:20)
ROOM: 15****15:00 M-O10****Microstructure Characterization Of Recycled Al Alloy 7050 By Spray Forming and Hot-Extrusion**

Conrado Ramos Moreira Afonso, Eric Mazzer¹, Claudemiro Bolfarini¹, Claudio Shyinti Kiminami¹; ¹Universidade Federal de São Carlos

15:40 M-O11**Microstructural Evolution Of Dissimilar Butt Joint Of Steel To Ni-Based Alloy By Friction Stir Welding**

Johnnatan Rodríguez, Antonio J Ramirez

16:00 M-O12**Using Cathodoluminescence In A Stem To Observe Internal Electric Field Screening In Single Quantum Discs**

Gabriel Ziviani Vitiello¹, Luiz Fernando Zagonel¹, Maria Tchernycheva², Gwenole Jacopin², Luiz Galvão Tizei², Lorenzo Rigutti², Mathieu Kociak²; ¹Universidade Estadual de Campinas, ²Université Paris Xi Sud

WEDNESDAY, OCTOBER 02**SESSION OS9-15 (09:30 - 10:30)
ROOM: 15****09:30 M-O13****Electron Microscopy Analysis Of Carbon Nanostructures In Highly Fertile Amazonian Anthrosoils**

Braulio Soares Archanjo¹, Carlos Achete; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia

10:10 M-O14**Morphological Differences and The Catalytic Performances Of Two Thermally Processed (1:1) Aupd Materials**

Erico Teixeira Neto¹, Ângela Albuquerque Teixeira Neto², Danilo O.a. dos Santos¹; ¹Universidade de São Paulo, ²Universidade Federal do Abc

PROGRAM

SESSION OS10-15 (10:50 - 12:30) ROOM: 15

10:50 **M-O15***

Structural and Local Spectroscopic Studies On Cnx Nanotubes

Raul Arenal¹; ¹Universidad de Zaragoza

11:30 **M-O16***

Applications Of Spherical Aberration-Corrected Transmission Electron Microscopy In Material Science

Jaysen Nelayah¹; ¹Université Paris Diderot

12:10 **M-O17**

Study Of The Growth Of Tellurium 1D Nanostructures By Electron Microscopy

Robson Rosa da Silva, Lauro June Queiroz Maia¹, Hernane Silva Barud², Sidney José Lima Ribeiro²; ¹Universidade Federal de Goiás, ²Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara

POSTER SESSION

MONDAY , SEPTEMBER 30

SESSION PS1 (16:40 - 18:00) ROOM: Poster Session

M-P1 **Phase Characterization Of Crystalline Iron and Aluminium Oxy(Hydroxi)Des Containing Arsenic**

Erico Tadeu Fraga Freitas¹, Gabriela Cordeiro Silva, Virgínia Sampaio Teixeira Ciminelli; ¹Universidade Federal de Minas Gerais

M-P2 **Sem Characterization Of Tio₂ Nanotubes Obtained By Anodization Of Titanium For Orthodontic Applications**

Jorge Luiz Rosa¹, Alain - Robin¹, Roberto Zenhei Nakazato², Michele Bernardes Ribeiro¹, Messias Borges Silva¹; ¹Universidade de São Paulo, ²Faculdade de Engenharia de Guaratinguetá - Unesp

M-P3 **Cross Sectioning Of Electrical Contacts Between Metal and Few Layers Graphene.**

Alfredo Rodrigues Vaz, Stanislav Moshkalev, Andrei Alaferdov

M-P4 **Correlative Light-Electron Fractography Of Polymer Composites**

Kamila Amato de Campos¹, José Alberto de Oliveira¹, André Ricardo Soares Amarante¹, Luis Rogerio de Oliveira Hein¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

M-P5 **Fractography Of Polymeric Composite With Poor Wetting Of Fibers**

Geraldo Maurício Cândido¹, João Carlos Fernandes¹, Mirabel Cerqueira Rezende¹, Osmar Fereira Gomes Filho², Mauricio Vicente Donadon²; ¹Instituto de Aeronáutica e Espaço, ²Instituto Tecnológico de Aeronáutica

M-P6 **Microscopic Analysis Of Misalignment and Waviness Of Fibers In A Carbon/epoxy Composite Molded By Vartm**

Geraldo Maurício Cândido¹, Priscila Prado Gomes², Mirabel Cerqueira Rezende¹; ¹Instituto de Aeronáutica e Espaço, ²Instituto Tecnológico de Aeronáutica

M-P7 **Microstructural Analysis Of Sno₂ Doped Zno Sintering Microwave Oven and Conventional Oven**

Natalia Jacomaci, Glauco Meireles Mascarenhas Morandi Lustosa¹, Pedro Manoel de Lima Quintanilha Mantas², Cristina Fernandes², Ana Maria Rocha Senos², José Arana Varela, Leinig Antonio Perazolli¹; ¹Instituto de Química - Unesp/car, ²Universidade de Aveiro

M-P8 **Characterization Of Heavy Metal Iodides Nanoparticles Synthesized At Different Conditions**

Alvaro Daniel Olivera Martínez¹, María Eugenia Pérez Barthaburu¹, Ivana Aguiar¹, Laura Fornaro¹; ¹Universidad de La República

M-P9 **Microscopic Analysis Of Carbon/epoxy Composite With Voids Molded By Vartm Process**

Geraldo Maurício Cândido¹, Priscila Prado Gomes², Mirabel Cerqueira Rezende¹; ¹Instituto de Aeronáutica e Espaço, ²Instituto Tecnológico de Aeronáutica

M-P10 **Aplicação da Técnica Ebsd Para Análise da Microestrutura e Textura em Peridotitos do Arquipélago de São Pedro e São Paulo**

Suellen Olívia Pinto, Leonardo Evangelista Lagoeiro

M-P11 **Physical Characterization Of Titania-Polyoxometallates Lbl Films By Electron Microscopy**

Sajjad Ullah¹, José Javier Sáez Acuña, Ubirajara Pereira Rodrigues Filho; ¹Universidade de São Paulo

M-P12 **Polymeric Porous Films: Production and Characterization**

Elisângela Silva Pinto¹, Adriana Madalena de Araújo Faria¹, Michelline Araújo Miranda¹, Bernardo Ruegger Almeida Neves², Gislayne Elisana Gonçalves^{1,3}, Rodrigo Fernando Bianchi³; ¹Instituto Federal de Educação, Ciência e Tecnologia de Minas Gerais, ²Universidade Federal de Minas Gerais, ³Universidade Federal de Ouro Preto

M-P13 **Benefic Defects On Poly and Single Crystals Superconductors**

Cristol de Paiva Gouvêa¹, Victor Carozo¹, Andrea Porto Carreiro Campos¹, Braulio Soares Archanjo¹, Martín Emilio Mendoza¹, Rosalía Kruger de Castro¹, Valdemar Das Neves Vieira², Fábio Teixeira Dias¹, Douglas Langie da Silva²; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Universidade Federal de Pelotas

M-P14 **Estimating The Amount Of Gold Nanoparticles In Natural Rubber Samples Using The Starlet Transform**

Alexandre Fioravante de Siqueira¹, Flávio Camargo Cabrera Proc. Fapesp 2011/23362-0¹, Aylton Pagamisse¹, Aldo Eloizo Job¹; ¹Fct-Unesp Campus de Presidente Prudente

M-P15 Synthesis Of Thermally Stable Nanoclusters Embedded In Dielectric Substrates

Cristiane Marin, Flavia Piegas Luce, Mariana de Mello Timm, Zacarias Eduardo Fabrim, Daniel Lorscheitter Baptista, Aline Tais da Rosa, F. C. Zawislak, Gustavo de Medeiros Azevedo, Paulo F. P. Fichtner

M-P16 Using Electron Backscatter Diffraction (Ebsd) To Measure Microstructure Of Quartz-Ribbons

Camila Morato Fadul¹, Leonardo Evangelista Lagoeiro¹; ¹Universidade Federal de Ouro Preto

M-P17 Plasma Deposition Of SiO₂-Like On Pp and Nwpp

Monique Seufitellis Curcio¹, Maria Cristina Canela¹, Walter Ruggeri Waldman², Elidiane Cipriano Rangel³; ¹Universidade Estadual do Norte Fluminense Darcy Ribeiro, ²Universidade Federal de São Carlos, ³Universidade Estadual Paulista

M-P18 Preparation and Characterization Of TiO₂-Covered ZnO Nanorods

Alaíde Cristina de Souza Lima, Talita Mazon

M-P19 Cathodoluminescence As A Tool For The Assessment Of Iii-N Nanowire Heterostructures

Luiz Fernando Zagonel¹, Maria Tchernycheva², Lorenzo Rigutti², Rudeesun Songmuang³, Catherine Bougerol³, Gabriel Tourbot³, Bruno Daudin³, Joel Eymery³, Mathieu Kociak²; ¹Universidade Estadual de Campinas, ²University Paris Sud Xi, ³Institut Néel

M-P20 High Resolution Transmission Electron Microscopy Of Multi-Layer Inas Quantum Dot Structures

Sandra Marcela Landi¹, Carlos Alberto Senna¹, Maurício Pamplona Pires², Patrícia Lustoza Souza³; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Universidade Federal do Rio de Janeiro, ³Pontifícia Universidade Católica do Rio de Janeiro

M-P21 Dynamics Experiments Of Phase Transformation In The Scanning Electron Microscopy

Maria Eduarda Zani¹; ¹Centro Nacional de Pesquisa em Energia e Materiais

M-P22 Microscopic Study Of Thin Films Of CoFe₂O₄/batio₃

Helen Rose de Castro Silva Andrade, Luciana M Seara, Nelcy Mohallem

M-P23 Morphological and Chemical Characterization Of Inp/inas_xP_{x-1} Nanowires Using Eds Analysis

Gabriel Vicente¹, Douglas Soares Oliveira¹, Monica Alonso Cotta¹, Luiz Fernando Zagonel¹; ¹Universidade Estadual de Campinas

M-P24 Study Of Structural Defects Near Quantum Dots

Raul de Oliveira Freitas¹, Carlos Alberto Ospina Ramirez², Antonio J Ramirez², Alan A Quivy³, Sergio Luiz Morelha³; ¹Laboratório Nacional de Luz Síncrotron, ²Laboratório Nacional de Nanotecnologia, ³Instituto de Física da Universidade de São Paulo

M-P25 Characterization Of Pbse Thin Films For Nanostructured Optoelectronic Devices

Z. E. Fabrim¹, Cristiane Marin¹, Aline Tais da Rosa¹, Mariana de Mello Timm¹, Paulo F. P. Fichtner¹; ¹Universidade Federal do Rio Grande do Sul

M-P26 Process Parameter Influence On Electrosprayed Polystyrene Microbeads

André Sionek¹, Cyro Ketzer Saul¹, Cesar Liberato Petzhold², Paula Poli Soares²; ¹Universidade Federal do Paraná, ²Universidade Federal do Rio Grande do Sul

J-P1 Non-Destructive Diagnostics Of Concrete Under Sulphate Attack By Electrochemical Impedance Spectroscopy

Mariana D'orey Gaivão Portella Bragança¹, Cláudia E. B. Marino², Kleber Franke Portella¹, Marcel Luiz Escobedo¹, Marcelle Maia Bonato²; ¹Instituto de Tecnologia Para O Desenvolvimento, ²Universidade Federal do Paraná

J-P2 Evaluation Of Mechanical Properties Of Polycarbonate Under Combined Effects Of Esc and Gamma Irradiation

Pietro Paolo Silva, Elmo Silvano Araujo, Leopoldo B. B. Silveira

J-P3 Effect Of Residual Stresses In The Fracture Toughness Of Li₂O.2SiO₂ and 2Na₂O.cao.sio₂ Glass Ceramics

Ivan Mathias¹, Letícia Moreschi¹, Carlos Eugenio Foerster¹, Edgar Dutra Zanotto², Francisco Carlos Serbena¹; ¹Universidade Estadual de Ponta Grossa, ²Universidade Federal de São Carlos

J-P4 Effect Of Environmental Conditioning On Welded Joints Pei/glass Fiber Composites

José Carlos Bravim Junior, Ana Beatriz Ramos Moreira Abrahão, Samia Danuta Brejão de Souza¹, Michelle Leali Costa, Rogerio Hein, Edson Cochieri Botelho; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

J-P5 Thermal Evaluation Of Eucalyptus Saligna Decayed Wood

Bruno Dufau Mattos¹, Tainise Vergara Lourençon¹, André Luiz Missio², Pedro Henrique Gonzalez de Cademartori³, Darci Alberto Gatto¹; ¹Universidade Federal de Pelotas, ²Universidade Federal de Santa Maria, ³Universidade Federal do Paraná

PROGRAM

J-P6 Estimation Of Modulus Of Elasticity Of Two Thermally Modified Hardwoods Using Ultrasound
Pedro Henrique Gonzalez de Cademartori¹, André Luiz Missio², Bruno Dufau Mattos³, Tainise Vergara Lourençon³, Darci Alberto Gatto³; ¹Universidade Federal do Paraná, ²Universidade Federal de Santa Maria, ³Universidade Federal de Pelotas

J-P7 Axial Variation Of Static Bending Strength Of Brazilian Spotted Gum Wood

Tainise Vergara Lourençon¹, Bruno Dufau Mattos¹, Pedro Henrique Gonzalez de Cademartori², André Luiz Missio³, Margarete Regina Freitas Gonçalves¹, Darci Alberto Gatto¹; ¹Universidade Federal de Pelotas, ²Universidade Federal do Paraná, ³Universidade Federal de Santa Maria

J-P8 Morphological, Mechanical and Thermal Characterization In Welded Pps / Carbon Fiber Composites For Aerospace Industry Application

Samia Danuta Brejão de Souza¹, Ana Beatriz Ramos Moreira Abrahão, José Carlos Bravim Junior, Michelle Leali Costa, Luis Rogerio de Oliveira Hein, Edson Cocchieri Botelho; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

J-P9 Comparative Study Of The Performance Of Heating Elements In Electrical Resistance Welding In Composites Pei/carbon Fibers

Natalia Di Giuseppe Quan, Ana Beatriz Ramos Moreira Abrahão, Samia Danuta Brejão de Souza¹, Michelle Leali Costa, Luis Rogerio de Oliveira Hein, Edson Cocchieri Botelho; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

J-P10 Evaluation Of Characteristic Of Composite Fracture When Exposed In Oil and Distilled Water and Heat

Renata Ferreira Sousa^{1,2}, Ricardo Alex Dantas Cunha^{1,2}, Renata Tavares Felipe¹, Raimundo Nonato Barbosa Felipe¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte, ²Universidade Federal do Rio Grande do Norte

J-P11 Evaluation Of Polymer Composite Behavior When In Contact With Water and Heat

Ricardo Alex Dantas Cunha^{1,2}, Renata Ferreira Sousa^{1,2}, Renata Tavares Felipe¹, Raimundo Nonato Barbosa Felipe¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte, ²Universidade Federal do Rio Grande do Norte

J-P12 Fractal Characterization Of Interlaminar Fracture Of Carbon-Epoxy Composites

Kamila Amato de Campos¹, André Ricardo Soares Amarante¹, Luis Rogerio de Oliveira Hein¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

J-P13 Corrosion Monitoring Of Low Carbon Steel In Aqueous Soil Extract By Electrochemical Impedance Spectroscopy

Rosa Maria Rabelo Junqueira¹, Isabela Maria Ferreira Lopes¹, Carolina Afonso Oliveira Carvalho¹, Célia Regina Oliveira Loureiro¹; ¹Centro Tecnológico Senai Cetec

J-P14 Fracture Analysis In Kocher Tweezers Broken During Surgery

Simone Pereira Taguchi Borges¹, Luiz Antônio Borges Júnior¹, Carlos Antonio Reis Pereira Baptista²; ¹Universidade Federal do Espírito Santo, ²Escola de Engenharia de Lorena - Usp

J-P15 Effects Of Strain Rate In Thermoplastics Materials: An Experimental Analysis To Obtain Mechanical Properties Using Digital Image Correlation

Rodrigo Nogueira de Codes¹, João Paulo Fernandes de Sousa Rêgo²; ¹Universidade Federal do Semi-Árido, ²Universidade Federal Rural do Semi-Árido

J-P16 Evaluation By X-Ray Microtomography Refractory Post-Morten Risers Used In Fluid Catalytic Cracking Units

Karina Silva Campos, Guilherme Frederico Bernardo Lenz e Silva, Eduardo Henrique Martins Nunes, Wander Luiz Vasconcelos

J-P17 Comparative Study Of The Carbon Steel and Galvanized Steel Behaviour In Soil By Electrochemical Impedance Spectroscopy

Gaston Alvial Moraga¹, Célia Regina de Oliveira Loureiro¹, Isabela Maria Ferreira Lopes¹, Rosa Maria Rabelo Junqueira¹; ¹Centro de Tecnologia Senai Cetec

K-P1 Analysis Of Direct Radiography Systems In Underwater Conditions

Carlos Alexandre Pereira Patusco¹, Gabriela Ribeiro Pereira², Ricardo Tadeu Lopes², Carla Alves Marinho¹, Uwe Uzschepel³, Uwe Ewert³; ¹Petrobras Research Center, ²Universidade Federal do Rio de Janeiro, ³Bundesanstalt Für Materialforschung Und Prüfung

K-P2 X-Ray Computed Tomography Applied To Multiscale Characterization Of The Porous System Of Carbonate Rocks

Iara Mantovani¹, Anderson Moreira¹, Celso Peres Fernandes¹; ¹Universidade Federal de Santa Catarina

K-P3 Temporal Evaluation Of Titanium Osseointegration Process By Means Of X-Ray Microtomography Image Analysis

Anderson Camargo Moreira¹, Celso Peres Fernandes¹, Alexandre Antunes Ribeiro², Marize Oliveira², Monica Talarico Duailibi³, Silvio Eduardo Duailibi³, Flávio de Avila Kfoury³; ¹Universidade Federal de Santa Catarina, ²Instituto Nacional de Tecnologia, ³Universidade Federal de São Paulo

K-P4 Development Of Industrial Ct System For 2D/3D Tomographic Of Concret Cores Taken From Hydroelectric Power Plant Dams

Vitoldo Swinka Filho¹, Walmor Cardoso Godoi², Klaus de Geus³, Sebastião Ribeiro Junior¹, Kleber Franke Portella¹, Betina L Medeiros¹, Willian Aparecido Ferreira¹, Fabrício Cunha de Andrade³, Marcos A Soares³; ¹Instituto de Tecnologia Para O Desenvolvimento, ²Universidade Tecnológica Federal do Paraná, ³Companhia Paranaense de Energia

K-P5 Modelling Carbonate Porous System As Multiscale Pore Network and Predicting Petrophysical Properties

Denise Prado Kronbauer¹, Iara Mantovani¹, Celso Peres Fernandes¹; ¹Universidade Federal de Santa Catarina

K-P6 Computational Study Of Elastic and Inelastic Scatter Tomography For Breast Imaging

Marcelo Antoniassi¹, Martin Eduardo Poletti¹; ¹Universidade de São Paulo

K-P7 Characterization Of Iron Ore Agglomerates By X-Ray Microtomography

Sidnei Paciornik¹, Karen Soares Augusto¹; ¹Pontifícia Universidade Católica do Rio de Janeiro

K-P8 Polychromatic Reconstruction Xfct: A New Challenge!

Eduardo Xavier Miqueles¹, Carlos Alberto Pérez; ¹Centro Nacional de Pesquisa em Energia e Materiais

K-P9 Fast Reconstruction Algorithms For Synchrotron Data

Eduardo Xavier Miqueles¹, Elias Salomão Helou²; ¹Centro Nacional de Pesquisa em Energia e Materiais, ²Universidade de São Paulo

K-P10 Comparison Of Variability In Quantification Of Ceramic Phases, Between Free Software (Gsas) and Commercial Applying The Rietveld Method

Carla Margarete Ferreira dos Santos¹, Dachamir Hotza², Agenor de Noni Jr³; ¹Instituto Federal de Educação, Ciência e Tecnologia Catarinense, ²Universidade Federal de Santa Catarina, ³Universidade do Extremo Sul Catarinense

K-P11 The Ni-Mineral Bearings In Onça Puma Mine/carajás-Pa: Preliminary Studies

Tatianne Cristine de Oliveira Nunes, Oscar Choque Fernandez, Felipe Barros Silva, Marlo Costa Oliveira, Roberta Lima de Castro, Mário Francisco Silva Neto

K-P12 Titanium Scaffolds Permeability Determination: A Comparison Approach

Anderson Camargo Moreira, Marcelo Augusto Rosa¹, Iara Mantovani, Keijo Karvelo Mattila, Celso Peres Fernandes, Alexandre Antunes Ribeiro, Marize Oliveira; ¹Universidade Federal de Santa Catarina

K-P13 Synchrotron X-Ray Tomography Characterization Of Sugarcane Biomass

Augusta Cerceau Isaac Neta¹, George M Rocha, Federico Sket², André Hilger³, Ingo Manke³; ¹Pontifícia Universidade Católica de Minas Gerais, ²Instituto Madriño de Estudios Avanzados, ³Helmholtz-Zentrum Berlin Für Materialien Und Energie Gmbh

K-P14 X-Ray and Uv Excited Luminescence Of Sodium Decatungstoeuropate Na9[Eu(W5O18)2].nh2O

Higor Henrique de Souza Oliveira¹, Marco Aurelio Cebim¹, Marian Rosaly Davolos²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho - Araraquara, ²Instituto de Química de Araraquara - Unesp

SYMPOSIUM L

Surface Characterization: Techniques and Applications

ORAL SESSIONS

* Invited Lecture

MONDAY , SEPTEMBER 30

**SESSION OS1-5 (09:30 - 10:30)
ROOM: 5**

09:30 L-O1

Influence Of The Pretreatment and Treatment Temperature On The Microstructure and Corrosion Resistance Of Low-Temperature Nitrided Aisi 420 Martensitic Stainless Steel

Anderson Carlos Gralak¹, Cláudia E. B. Marino¹, Cristiano José Scheuer¹, Silvio Francisco Brunatto¹, Rodrigo Perito Cardoso; ¹Universidade Federal do Paraná

09:50 L-O2

2-D Self-Organized Pattern Of Ni Particles Deposited On Tin Coated Si Crystal Sculpted By Ion Beam Bombarding

Mónica Morales Corredor¹, Rafael Merlo¹, Roosevelt Droppa Jr.², Fernando Alvarez¹; ¹Universidade Estadual de Campinas, ²Universidade Federal do Abc

PROGRAM

10:10 L-O3**Microstructural, Crystalline, and Mechanical Behaviors Of Astm 128 Grade C Steel After Several Heat Treatments**

Ângela Elisa Crespi¹, Talita Chavenco Lopes, Cesar Aguzzoli, Carlos Alejandro Figueroa, Israel Jacobi Baumvol, Maria Cristina Moré Farias; ¹Universidade de Caxias do Sul

SESSION OS2-5 (10:50 - 12:30)
ROOM: 5
10:50 L-O4***Combining Xps and Tof-Sims To Investigate The Surface Reactivity Of Metal Surfaces: Oxidation, Corrosion And Protein-Surface Interactions**

Anouk Galtayries¹; ¹École Nationale Supérieure de Chimie de Paris

11:30 L-O5**Growth and Surface Characterization Of Tinbzn Thin Films Deposited By Magnetron Sputtering**

Denise Tallarico¹, Anouk Galtayries², Angelo Luiz Gobbi³, Pedro Iris Paulin Filho¹, Marcelo Huguenin Maia da Costa⁴, Pedro Augusto de Paula Nascente¹; ¹Universidade Federal de São Carlos, ²Ecole National Supérieure de Chimie de Paris, ³Laboratório Nacional de Nanotecnologia, ⁴Pontifícia Universidade Católica do Rio de Janeiro

11:50 L-O6**Influence Of The Electrodeposition Process Parameters On The Formation Of Pt Layer and Subsequent Pack Aluminization**

Rafaela Lopes da Silva¹, Diego Wiedermann Sanchez¹, Ana Sofia Clímaco Monteiro D'oliveira¹; ¹Universidade Federal do Paraná

12:10 L-O7**Study Of The Influence Of The Die Angle and Friction Coefficient On Residual Stresses Generated In Wire Drawing Process In Round Bars Of Aisi 1045 Steel**

Vinicius Waechter Dias¹, Carla Theis Soares¹, Tomaz Fantin de Souza¹, Tiago Colombo¹, Alexandre da Silva Rocha¹; ¹Universidade Federal do Rio Grande do Sul

SESSION OS3-5 (15:00 - 16:20)
ROOM: 5
15:00 L-O8**Surface Modification Of Carbon Fibers By Plasma Immersion Ion Implantation (Pi) and Atmospheric Dielectric Barrier Discharge (Dbd)**

Alberto Lima Santos¹, Leide Lili Silva², Kontantin Georgiev Kostov¹, Mario Ueda³; ¹Faculdade de Engenharia de Guaratinguetá - Unesp, ²Faculdade de Tecnologia de Pindamonhangaba, ³Instituto Nacional de Pesquisas Espaciais

15:20 L-O9**Influence Of Shot Peening Surface Treatment On Fatigue Life Of Springs**

Larissa Vilela Costa¹, Jose Rubens Gonçalves Carneiro¹, William de Melo Silva¹, Vladimir Damasceno, Junio Cesar Costa; ¹Pontifícia Universidade Católica de Minas Gerais

15:40 L-O10**Effect Of Xe⁺ Ion Bombardment In Steels On The Surface Nanostructure and Nitriding Process**

Silvia Azevedo dos Santos Cucatti¹, Erika A.o. Becerra², Mónica Morales Corredor¹, Roosevelt Droppa Jr.³, Jose Luis Garcia⁴, Haroldo Cavalcanti Pinto⁵, Luiz Fernando Zagonel¹, Daniel Wisnivesky⁶, Fernando Alvarez¹; ¹Universidade Estadual de Campinas, ²Pontifícia Universidade Católica do Rio de Janeiro, ³Universidade Federal do Abc, ⁴Sandvik Machining Solutions, ⁵Universidade de São Paulo, ⁶Plasma-Liits Equipamentos e Processos

TUESDAY, OCTOBER 01
SESSION OS5-5 (09:30 - 10:30)
ROOM: 5
09:30 L-O11**Xps Study On Corrosion Induced Changes Of Ce(IV) Doped Siloxane-Pmma Hybrid Coatings**

Peter Hammer¹, Fábio Cesar dos Santos², Samarah Vargas Harb¹, Sandra Helena Pulcinelli³, Celso Valentim Santilli³; ¹Instituto de Química - Unesp/car, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Instituto de Química de Araraquara - Unesp

09:50 L-O12**Investigation Of The Surface Of Cu_xNi_{1-x}/CeO₂ (X = 1, 0.5 and 0) Nanoparticles Exposed To A Reduction Atmosphere**

Paula Consul Kazmirczak¹, Lívia Pugens Matte¹, Alex Sandre Kilian¹, Leandro Luza¹, Maria do Carmo Martins Alves¹, Jonder Moraes¹, Jairton Dupont¹, Fabiano Bernardi¹; ¹Universidade Federal do Rio Grande do Sul

10:10 L-O13**Xps Characterization Of Gadolinium-Doped Nano-Ceria**

Lúcia Adriana Villas-Bôas¹, Pedro Augusto de Paula Nascente¹, Richard Landers², Filipe Miguel Lebre Figueiredo³, Fernando Manuel Bico Marques³, Dulcina Pinatti Ferreira de Souza¹; ¹Universidade Federal de São Carlos, ²Universidade Estadual de Campinas, ³Universidade de Aveiro

SESSION OS6-5 (10:50 - 12:30)
ROOM: 5**10:50 L-O14*****Characterization Of Plasma Modified Surfaces and Plasma Deposited Coatings: Challenges, Specific Case Studies, Techniques**François Reniers¹; ¹Université Libre de Bruxelles**11:30 L-O15****Observation Of An Anomalous Termination Of Bi₂Te₃ By Scanning Tunneling Microscopy and X-Ray Crystal Truncation Rod Scattering**Paula Mariel Coelho¹, Guilherme Almeida Silva Ribeiro¹, Vinícius do Lago Pimentel², Angelo Malachias de Souza¹, Wendell Simões e Silva¹, Diogo Duarte dos Reis¹, Mário Sérgio de Carvalho Mazzoni¹, Rogério Magalhaes Paniago¹; ¹Universidade Federal de Minas Gerais, ²Laboratório Nacional de Luz Síncrotron**11:50 L-O16****Development Of New Ceramic Coating Line For Refractory Line Based In Carbon Of Steel Ladle.**Bruno Vidal Almeida¹, Sara Carvalho¹, José Milton Lopes¹, Fernando Vernilli Júnior¹; ¹Universidade de São Paulo**12:10 L-O17****La_{0.7}Sr_{0.3}MnO₃ On SrTiO₃: Surface Structure Evolution With Film Thickness**Diogo Duarte Reis^{1,2}, Zhaoliang Liao², Jiandi Zhang², Ward Plummer²; ¹Universidade Federal de Minas Gerais, ²Louisiana State University**SESSION OS7-5 (15:00 - 16:20)**
ROOM: 5**15:00 L-O18****Effect Of Raw Materials Variation In Properties Of Sic Synthesized By Acheson Process**Mariane Capellari Leite da Silva¹, Fernando Vernilli Júnior¹; ¹Escola de Engenharia de Lorena**15:20 L-O19****Spinel Formation From Solutions Of Magnesium and Aluminum Salts**Sara Carvalho¹, Bruno Vidal Almeida, Fernando Vernilli Júnior, José Milton Gabriel Lopes, Sidney Nascimento Silva; ¹Universidade de São Paulo**15:40 L-O20****Corrosion Study Of The Al₂O₃/sic/c/mgAl₂O₄ Based Refractory Incorporated By Spinel.**Bruno Vidal Almeida¹, Elton Silva Neves², Sara Carvalho¹, José Milton Gabriel Lopes¹, Fernando Vernilli Júnior¹; ¹Universidade de São Paulo, ²Companhia Siderúrgica Nacional**SESSION OS9-5 (09:30 - 10:30)**
ROOM: 5**09:30 L-O21****Structural and Electronic Properties Of Graphene-Covered Metal Monolayers On Ni(111)(1X1)**Edmar Avellar Soares¹, Guilherme Jean Pereira Abreu², Sabrina Carara³, Roberto Magalhães Paniago¹, Daniel Esteves Parreiras¹, Willians Principe Fernandes⁴, Alexandre Alberto Chaves Cotta¹, Vagner Eustáquio de Carvalho¹, Hélio Chacham¹; ¹Universidade Federal de Minas Gerais, ²Universidade Estadual de Campinas, ³Universidade Federal de Mato Grosso, ⁴Universidade Federal de São João Del Rei**09:50 L-O22****Order-Disorder Transition In Molecular Self-Assembling Studied By Xps and Stm: The Case Of Nitpp/cu(111)**Shadi Fatayer¹, Maurício J Prieto, Eric Perim, Douglas Soares Galvão, Richard Landers, Abner de Siervo; ¹Universidade Estadual de Campinas**10:10 L-O23****Surface Atomic Structure Of The Topological Insulator Bi₂Se₃ By Low Energy Electron Diffraction**Diogo Duarte Reis¹, Wendell Simões, Edmar Avellar Soares, Philip Hofmann, Vagner Eustáquio de Carvalho; ¹Universidade Federal de Minas Gerais**SESSION OS10-5 (10:50 - 12:30)**
ROOM: 5**10:50 L-O24*****From Photoelectron Diffraction To Direct Imaging Of Thousands Of Atoms**Carsten Westphal¹, Tobias Lühr¹; ¹Technische Universität Dortmund**11:30 L-O25****Structural Characterization Of Highly Ordered Graphene On Nickel (111) For Photoelectron Diffraction (PED)**Daniel Esteves Parreiras, Willians Principe Fernandes, Thiago Eduardo Pereira Bueno¹, Edmar Avellar Soares¹, Roberto Magalhães Paniago¹, Abner de Siervo², Richard Landers²; ¹Universidade Federal de Minas Gerais, ²Universidade Estadual de Campinas**11:50 L-O26****Probing Locally The Luminescence Of Europium Oxide On MgO(001) films**Fernando Stavale¹, Leandro Pascua², Niklas Nilius², Hans-Joachim Freund²; ¹Centro Brasileiro de Pesquisas Físicas, ²Fritz-Haber Institut**12:10 L-O27****Spin-Polarized Scanning Tunneling Microscopy (Sp-Stm): Concept and Applications**Maximiliano Delany Martins¹, Rafael Lopes de Souza¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear**WEDNESDAY,****OCTOBER 02**

PROGRAM

SESSION OS11-5 (15:00 - 16:20)
ROOM: 5
15:00 L-O28

Local Electrical Conductivity Of Isolated Carbon Nanotubes Electromagnetic Force Microscopy
Benjamin Fragneau^{1,2}, Pedro Marin Bedê², Clara Muniz Almeida², Carlos Achete^{3,2}; ¹Universidade Federal de Juiz de Fora, ²Instituto Nacional de Metrologia, Qualidade e Tecnologia, ³Universidade Federal do Rio de Janeiro

15:20 L-O29

Recent Advances In Glow Discharge Optical Spectrometry For The Characterisation Of Materials
Celia Olivero¹, Patrick Chapon¹, Philippe Ayasse²; ¹Horiba Jobin-Yvon, ²Horiba Brazil

15:40 L-O30

Characterization Of The Electrochemical Kinetic In The Kaolin Bleaching Process
Andrés Mauricio Muñoz García¹, Martin Eduardo Espitia², Juan Fernando Montoya³, Moises Oswaldo Bustamante⁴, Jorge Iván Usma Gutiérrez; ¹Instituto Tecnológico Metropolitano, ²Corporación Universitaria Minuto de Dios, ³Corporación Universitaria Lasallista, ⁴Universidad Nacional de Colombia

THURSDAY, OCTOBER 03
SESSION OS13-5 (09:30 - 10:50)
ROOM: 5
09:30 L-O31

Physico-Chemical Anisotropic Study Of Kaolin Minerals Surfaces From Colombian Using Afm Technique

Andrés Mauricio Muñoz García¹, Martin Eduardo Espitia², Juan Fernando Montoya³, Moises Oswaldo Bustamante⁴, Jorge Iván Usma Gutiérrez; ¹Instituto Tecnológico Metropolitano, ²Corporación Universitaria Minuto de Dios, ³Corporación Universitaria Lasallista, ⁴Universidad Nacional de Colombia

09:50 L-O32

Surface Study By Xps Of Functionalized Charcoal Compounds and Humic Acids From Anthropogenic Amazonian Dark Earh

Joyce Rodrigues Araujo¹, Bráulio Soares Archanjo¹, Etelvino Henrique Novotny², Carlos Achete¹; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Embrapa Solos

10:10 L-O33

Influence Of Feed Speed and Granulometry In The Process Of Sanding Of The Wood Corymbia Citriodora.

Demétrio Zacarias¹, Manoel Cléber de Sampaio Alves¹, Paulo Roberto Gomes Alves¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

10:30 L-O34

Characterization Of Biological Surfaces With Water-Repellency and Self-Cleaning Properties

Hernán Espinoza Riera¹, Helen Mota, Marcela David Carvalho², Antônio Valadão Cardoso^{3,1}; ¹Centro de Bioengenharia de Espécies Invasoras de Hidrelétricas, ²Companhia Energética de Minas Gerais, ³Universidade do Estado de Minas Gerais

POSTER SESSION
MONDAY, SEPTEMBER 30
SESSION PS1 (16:40 - 18:00)
ROOM: Poster Session

L-P1 Study Of Graphitization Of Diamond Coated And Uncoated

Stênio Cavalier Cabral^{1,2}, Luciano José Oliveira, Ana Lucia Diegues Skury, Marcello Filgueira; ¹Universidade Estadual do Norte Fluminense Darcy Ribeiro, ²Universidade Federal dos Vales do Jequitinhonha e Mucuri

L-P2 Electrochemical and Nanomechanical Properties Of Zrn Coated Niti Shape Memory Alloy After Plasma Nitriding

Rodrigo Leonardo de Oliveira Basso¹, Juliane Carla Bernardi², Fernando Silvio Ramone³, Almir Spinelli³, Carlos Alejandro Figueroa⁴; ¹Universidade Federal da Integração Latino-Americana, ²Universidade Federal do ABC, ³Universidade Federal de Santa Catarina, ⁴Universidade de Caxias do Sul

L-P3 Tribological Behavior Of Ti-6Al-4V Alloy Submitted To High Temperature Nitrogen Plasma Based Ion Implantation

Cibele Fernandes^{1,2}, Aline Capella de Oliveira^{3,1}, Felipe de Campos Carreri¹, Rogério M Oliveira¹, Mario Ueda¹; ¹Instituto Nacional de Pesquisas Espaciais, ²Faculdade de Tecnologia de São José dos Campos, ³Instituto de Estudos Avançados

L-P4 Analysis Of Surface Degradation Pp and Hdpe Banana Fiber By Scanning Electron Microscopy (Sem)

Camila Loricchio Veiga¹, Paula Hashimoto¹, Rosinei Batista Ribeiro^{1,2}, Jorge Luis Rosa³, Nelson Tavares Matias^{1,2}; ¹Faculdades Integradas Teresa D'ávila, ²Universidade do Estado do Rio de Janeiro, ³Universidade de São Paulo

L-P5 Influence Of The Tic Coating On The Diamond In Improving The Wear Resistance Of Fe-Diamond Composites

Stênio Cavalier Cabral^{1,2}, Luciano José Oliveira¹, Ana Lucia Diegues Skury¹, Marcello Filgueira¹; ¹Universidade Estadual do Norte Fluminense Darcy Ribeiro, ²Universidade Federal dos Vales do Jequitinhonha e Mucuri

L-P6 Deposition and Characterization Of Titanium Nitride Coatings On Tool Steels

Rômulo Ribeiro Magalhães de Sousa¹, Patricia Suemi Sato², Pedro Augusto de Paula Nascente²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Piauí, ²Universidade Federal de São Carlos

L-P7 Corrosion Resistance Of Graphite-Like A-C:h (Glch) Films Deposited On Bare and Nitrided Ti6Al4V

Adelia Moreira Marques Santos¹, Ronaldo Júnio Campos Batista¹, Iduvirges Lourdes Müller², Taise Matte Manhabosco¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal do Rio Grande do Sul

L-P8 Superhydrophobic and Anti-Corrosion Properties Of Silane/silica Nanoparticles/ptfe Coatings On Carbon Steel

Julio Alberto Nardi¹, Daniel Eduardo Weibel¹, Alexandre Fassini Michels², Flavio Horowitz¹; ¹Universidade Federal do Rio Grande do Sul, ²Universidade de Caxias do Sul

L-P9 Nanoscale Friction Behavior Of Plain Steel Surfaces Modified By Plasma Nitriding and Post-Oxidizing

Marcia Freisleben¹, Caren Machado Menezes¹, Fernanda Buratti Costi¹, Patrícia Andréia Ferreira¹, Cesar Aguzzoli¹, Israel Jacob Rabin Baumvol¹, Carlos Alejandro Figueroa¹; ¹Universidade de Caxias do Sul

L-P10 Comparative Study Of Quenching In Palm Oil and Mineral Oil On 1010 Aisi Steel Thermo-Chemically Treated On Surface

Vanessa de Nazaré Barroso Amorim¹, Max Kakue Sasaki, Leonardo Silva Costa, Evaldo Júlio Ferreira Soares¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Pará

L-P11 Modified Sodium Bentonite With Aromatic Ammonium Salt

Kassia dos Santos, Heloisa Nunes Motta, Erick Amaral Campos, Joseane Valente Gulmine, Marilda Munaro

L-P12 Laser Surface Modification Of Mrcaly Coating Obtained By Plasma Spray On A Stainless Steel Alloy

Viviane Teleginski¹, Daniele Cristina Chagas¹, Helder Souza Oliveira¹, João Marcos de Assis², Francisco Piorino Neto², Getulio de Vasconcelos¹; ¹Instituto de Estudos Avançados, ²Instituto de Aeronáutica Espaço

L-P13 Evaluation Of The Organic Coloring, Thickness and Hardness Of An Anodic Layer

Natal Nerímio Regone¹, João Ricardo Baptista²; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho", ²Cpa-Comércio Paulista de Anilinas Ltda

L-P14 Characterization Of Carbon Fibers/polypropylene Composites Treated By Dielectric Barrier Discharge (Dbd)

Dielly Cavalcanti Silva^{1,2}, Alberto Lima Santos¹, Kontantin Georgiev Kostov¹, Leide Lili Silva^{1,2}; ¹Faculdade de Engenharia de Guaratinguetá - Unesp, ²Faculdade de Tecnologia de Pindamonhangaba

L-P15 Evaluation Of Nanotechnology As An Alternative To Zinc Phosphate In Carbon Steel With Welding

Kelly Bossardi, Jane Zoppas Ferreira

L-P16 Effect Of Oxidation About Galvanic Interaction Between Chalcopyrite and Galena

Carlos Roberto Falcão de Albuquerque Junior¹, Marcelle Ingrid Alves Idelfonso¹; ¹Centro Universitário Estadual da Zona Oeste

L-P17 Characterization Of Thiophene-Based Polymer Films and Their Nanocomposites By Spectroscopic Techniques

Bruno Gabriel Alves Leite Borges¹, Yunier Garcia-Basabe^{1,2}, Matheus Campos da Rosa¹, Vinicius Valle Vianna Pinto¹, Josué Rodrigues Santa Rita³, Caroline Arantes da Silva, Maria Luiza Miranda Rocco¹, Lucimara Stolz Roman⁴; ¹Universidade Federal do Rio de Janeiro, ²University Of Matanzas Camilo Cienfuegos, ³Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro, ⁴Universidade Federal do Paraná

L-P18 Evaluation Of The Wear Resistance Of Coatings Nbc, Vc and Nbvc Produced By The Deposition Technique Thermo-Reactive Diffusion (Trd)

Marco Antonio Ramirez Ramos¹, Jhon Jairo Olaya¹; ¹Universidad Nacional de Colombia

L-P19 Electrochemical Study Of Polymer Derived From Folic Acid Formed Over Glassy Carbon Electrode

Diego Leoni Franco¹, Sabrina Nunes Vieira¹, Amanda Cristina de Souza¹; ¹Universidade Federal de Uberlândia

L-P20 Shear Test Glue In Line Sanded Surfaces Eucalyptus Wood

Paulo Roberto Gomes Alves¹, Marcos Tadeu Tibúrcio Gonçalves¹, Manoel Cléber de Sampaio Alves¹, Demétrio Zacarias¹, Fábio Henrique Antunes Vieira¹; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

L-P21 Laser Powder Surface Alloying Of Titanium With Al Powder

Adilson Vitor Rodrigues¹, João Batista Fogagnolo¹, Rubens Caram¹, Milton Sergio Fernandes de Lima²; ¹Universidade Estadual de Campinas, ²Instituto de Estudos Avançados

L-P22 Characterization Techniques For High Quality Solution Used On Xerographic Consumables

Mirella Nagib de Oliveira Boery¹, Daniel Lordelo Sanches¹, Antônio Alvaro L. B. Gomes¹, Tatiana Petersen Gesteira¹, Luiz Henrique Rodrigues Caldas², Sara Agrela², Lauro David C Andrade¹, Nadia Mamede José², Marcos Akira D'ávila³; ¹Xerox Comércio e Indústria, ²Universidade Federal da Bahia, ³Universidade Estadual de Campinas

L-P23 Rheological Behavior Of Natural Gums Applied At Textile Industry

João Batista Giordano

L-P24 Characterization Of Iron In Airborne Particulate Matter Of Metropolitan Area Of Belo Horizonte, Mg, Brazil

Fernanda Vasconcelos Fonseca Tavares¹, José Domingos Ardisson, Luis Eugenio Fernandez Outon, Raphael Evandro Araujo, Waldemar Augusto de Almeida Macedo, Vanusa Feliciano Jacomino; ¹Centro de Desenvolvimento da Tecnologia Nuclear

L-P25 Reversible Wettability Of Functionalized-TiO₂ Coatings On Polypropylene Surfaces

Gabriela Ramos Chagas¹, Daniel Eduardo Weibel¹; ¹Universidade Federal do Rio Grande do Sul

L-P26 Changes In The Surface Properties Of The Asphalt Binder Modified With 3% Ommt

Érico Rodrigues Dourado¹, Renata Auntoun Simão²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro, ²Universidade Federal do Rio de Janeiro

L-P27 Si Phase Transformation Produced By Instrumented Indentation

Andre Assmann¹, Carlos Eugenio Foerster¹, Francisco Carlos Serbena¹, Carlos Mauricio Lepienski²; ¹Universidade Estadual de Ponta Grossa, ²Universidade Federal do Paraná

L-P28 Effect Of Fe and Cr On The Formation Of The Oxide Scale On Nial

Larissa Maria Fernandes¹, Ana Sofia Clímaco Monteiro D'oliveira¹; ¹Universidade Federal do Paraná

L-P29 Electrodeposition and Characterization Of Thin Zn-TiO₂ Nanocomposite Coatings

Rafael Tavares Vieira¹, Tania Maria Cavalcanti Nogueira¹, Glaucia Domingues¹, Tiago Brandão Costa¹; ¹Universidade Federal Fluminense

L-P30 Study Of Low Pressure Technique For Modification Of Nanocrystalline Incorporated Dlc Film Surfaces

Fernanda Cavalcante da Silva¹, Vagner Eduardo Caetano Marques², Vladimir Jesus Trava-Airoldi², Anderson Oliveira Lobo¹, Fernanda Roberta Marciano¹; ¹Universidade do Vale do Paraíba, ²Instituto Nacional de Pesquisas Espaciais

L-P31 Electropolymerization Of Pyrrole Using Controlled Current On 7075 Aluminum Alloy

Luciana Bonani Domiciano¹, Liu Yao Cho¹, Andrea Santos Liu¹, Priscila Eduarda Bussolaro Cândido¹, Luciana Otaviano Paula¹, Karine Miranda Bezerra², Felipe Ezequiel Pereira Santos¹, Larissa Bianca Almeida¹; ¹Universidade do Vale do Paraíba, ²Instituto Federal de Educação, Ciência e Tecnologia de São Paulo

L-P32 Boron-Doped Diamond Film Growth On Copper Substrates Coated By Copper-Diamond Composite Interlayer

Kenya Aparecida Alves, Evaldo José Corat, Adriana Faria Azevedo, Vladimir Jesus Trava-Airoldi, João Roberto Moro

L-P33 Granular Filter Media Surfaces Modified By Silver Nanoparticles Impregnation

Leonardo Damigo, Ricardo de Lima Isaac, Gabriela dos Reis, Gladis Camarini

L-P34 Application Of The Rietveld Method To Quantify The Crystalline Phases Of Airborne Dust

Paulo Renato Perdigão Paiva¹, Angela de Mello Ferreira², Gabriela Cordeiro Silva¹; ¹Instituto Nacional Recursos Minerais, Água e Biodiversidade, ²Centro Federal de Educação Tecnológica de Minas Gerais

L-P35 Studying Of Mullite Production By Sintering In Both Conventional and Microwave Oven

Aline Cristina Paes de Lima¹, Bruno Vidal Almeida¹, Fernando Vernilli Júnior¹; ¹Universidade de São Paulo

L-P36 Effect Of Current Density In Optical and Morphological Characteristics Of Porous Silicon

Belchior Elton Lima da Silva¹, Miguel Angelo Amaral Junior¹, Lilian Mieke da Silva¹, Neidenei Gomes Ferreira¹, Maurício Ribeiro Baldan¹, Antonio Fernando Beloto¹; ¹Instituto Nacional de Pesquisas Espaciais

L-P37 Hydrogenated Amorphous Carbon Thin Films Deposited By Segmented Hollow Cathode

Solveig Dufrène¹, Felipe Cemin¹, Márcio R. F. Soares¹, César Aguzzoli¹, Marcelo Huguenin Maia da Costa², Israel Jacobi Baumvol^{1,3}, Carlos Alejandro Figueroa¹; ¹Universidade de Caxias do Sul, ²Pontifícia Universidade Católica do Rio de Janeiro, ³Universidade Federal do Rio Grande do Sul

L-P38 Magnetotransport Measurements On Pbte:baf₂ Films

Luana Mendes Silva¹, Marcelos Lima Peres¹, Suelen Castro¹, Valmir Antonio Chitta², Paulo Henrique Rappi³; ¹Universidade Federal de Itajubá, ²Universidade de São Paulo, ³Instituto Nacional de Pesquisas Espaciais

L-P39 Magnetic Characterization Of Ultrathin Fe₃O₄ By Xmc

Gustavo Fóscolo de Moura Gomes¹, Daniel Esteves Parreiras¹, Thiago Eduardo Pereira Bueno¹, Hans D.-Pfannes¹, Roberto Magalhães Paniago¹, Abner de Siervo²; ¹Universidade Federal de Minas Gerais, ²Universidade Estadual de Campinas

L-P40 Electrochemical Study Of The Influence Of TiO_2 Into Hydroxyapatite Based Coating On Ti4Al6V
Rafael Toshio Sakai¹, Patrícia Hatsue Suegama¹, Hortencia Melero², Javier Fernández², Assis Vicente Benedetti³; ¹Fundação Universidade Federal da Grande Dourados, ²Universitat de Barcelona, ³Instituto de Química - Unesp/car

L-P41 Simulation Of Graphene Thin Film Used In Microstructure

Lilian Marques Silva¹, Eik Tenório¹, Jose Eduardo Manzoli; ¹Faculdade de Tecnologia de Tatuí

L-P42 Surface Characterization Of Cupuaçu (Theobroma Grandiflorum) Leaves

Henrique Duarte da Fonseca Filho¹, Glenda Quaresma Ramos², Elisa Baggio Saitovitch³, Marta Duarte da Fonseca de Albuquerque⁴; ¹Universidade Federal do Amazonas, ²Universidade Federal do Amapá, ³Centro Brasileiro de Pesquisas Físicas, ⁴Universidade Federal do Rio de Janeiro

L-P43 Tribological Studies Of Sic Films Deposited On Ti6Al4V Alloy

Karina Carvalho de Farias Nass¹, Marcos Massi¹, Argemiro Soares da Silva Sobrinho, Danieli Aparecida Pereira Reis¹, Lucia Vieira Santos Santos², Polyana Alves Radi Gonçalves^{3,1}; ¹Universidade Federal de São Paulo, ²Universidade do Vale do Paraíba, ³Instituto Tecnológico de Aeronáutica

L-P44 Study Of Effects Of Changes On Ratio On Oh/nco In The Adhesiveness Polyurethanes Film In Metal Surfaces By Instrumented Indentation

Marina Cardoso Vasco¹, Vanessa Xavier Faria¹, Eduardo Mauro Nascimento¹, Salvador Claro Neto², Carlos Mauricio Lepienski³, Elaine Cristina Azevedo¹; ¹Universidade Tecnológica Federal do Paraná, ²Universidade de São Paulo, ³Universidade Federal do Paraná

L-P45 Growth Time Influence To Produce Boron Doped Nanocrystalline Diamond Films On Porous Silicon Substrate

Lilian Mieko da Silva¹, Marta dos Santos¹, Adriana Faria Azevedo¹, Maurício Ribeiro Baldan¹, Neidenei Gomes Ferreira¹, Antonio Fernando Beloto¹; ¹Instituto Nacional de Pesquisas Espaciais

L-P46 Study Of Silicon Interface Formation Over Aisi 405 Steel To Improve Dlc Films Adhesion

Patrícia Cristiane Santana da Silva¹, Guilherme Faria da Silva¹, Lania Auxiliadora Pereira¹, Evaldo José Corat¹, Vladimir Jesus Trava-Airoldi¹; ¹Instituto Nacional de Pesquisas Espaciais

L-P47 Superficial Analysis Of The Dendê Fiber Post Naoh Treatment

Sabina da Memória Cardoso de Andrade¹, Carmen Gilda Barroso Tavares Dias²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Pará, ²Universidade Federal do Pará

L-P48 Increase Of Surface Hydrophobicity Of Guapuruvu Wood Modified By Glycidyl Methacrylate

Bruno Dufau Mattos¹, Tainise Vergara Lourençon¹, André Luiz Missio², Pedro Henrique Gonzalez de Cademartori³, Darci Alberto Gatto¹; ¹Universidade Federal de Pelotas, ²Universidade Federal de Santa Maria, ³Universidade Federal do Paraná

L-P49 Influence Of Electrolyte In The Electrodeposition Of Polypyrrole Films

Karine Miranda Bezerra¹, Andrea Santos Liu¹, Felipe Ezequiel Pereira Santos², Liu Yao Cho²; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Universidade do Vale do Paraíba

L-P50 Diamond-Like Carbon Electrochemical Corrosion Resistance By Addition Of Gold Nanoparticles

Marina Fernandes Stein, Eduardo Saito, Laís Souza Vieira, Leandro José Raniero, Vladimir Jesus Trava-Airoldi, Anderson Oliveira Lobo, Fernanda Roberta Marciano¹; ¹Universidade do Vale do Paraíba

L-P51 Phosphorylation Of The Cellulose Surface With Metaphosphoric Acid

Fabírcia Castro Silva¹, Marcia Maria Fernandes Silva¹, Edson Cavalcanti da Silva Filho, Maria Rita de Moraes Chaves Santos, Luiz de Sousa Santos Júnior; ¹Universidade Federal do Piauí

L-P52 Role Of Bao In The Spectroscopic Properties Of Tellurite Glasses

Andre Assmann¹, Anderson Gonçalves¹, Gerson Kniphoff da Cruz¹, Francisco Carlos Serbena¹, Addressa Novatski¹; ¹Universidade Estadual de Ponta Grossa

L-P53 Dynamic Wettability Of Brazilian Spotted Gum Wood

Tainise Vergara Lourençon¹, Bruno Dufau Mattos¹, Pedro Henrique Gonzalez de Cademartori², André Luiz Missio³, Margarete Regina Freitas Gonçalves¹, Darci Alberto Gatto¹; ¹Universidade Federal de Pelotas, ²Universidade Federal do Paraná, ³Universidade Federal de Santa Maria

L-P54 Study Of Intergranular Corrosion In Aisi 304L and Aisi 316L Using Electrochemical Impedance Spectroscopy (Eis)

Pedro Rupf Pereira Viana¹, Viviane Azambuja Favre-Nicolin¹, Denner Nespoli de Mello²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo, ²Instituto Federal do Espírito Santo

L-P55 Modification Of Cellulose With Chloroethylphosphate In Free Solvent Conditions

Fabírcia Castro Silva, Marcia Maria Fernandes Silva, Edson Cavalcanti da Silva Filho, Maria Rita de Moraes Chaves Santos, Luiz de Sousa Santos Júnior, Luciano Clécio Brandão Lima¹; ¹Universidade Federal do Piauí

L-P56 The Study Of The Anodizing and The Sol-Gel Coating On The Aluminum Alloy Using The Eis Technique

Giani de Vargas Brião¹, Marcos Felipe Pinheiro¹, Ana Paula Jardim Roquete¹, Valeska Rodrigues Roque¹, Camila Giacomini Dariva¹, Alexandre Galio¹; ¹Fundação Universidade Federal do Pampa

L-P57 Pulsed Bias Effect On Tio₂ Films Deposited By Grid Assisted Magnetron Sputtering.

Joel Stryhalski^{1,2}, Marcos Fernando Odorczyk¹, Juliano Sadi Scholtz¹, Pablo Andrés Muñoz-Rojas¹, Marcello Mezaroba¹, Abel André Cândido Recco¹, Luis Cesar Fontana¹; ¹Fundação Universidade do Estado de Santa Catarina, ²Instituto Federal de Santa Catarina

L-P58 Development Of Coatings Containing Rice Husk and Coal Ash Addition

Mateus Cereza Brandão¹, Luciana Machado Rodrigues¹, Sabrina Neves da Silva¹; ¹Fundação Universidade Federal do Pampa

L-P59 Low Cost Goniometer Development, Testing and Calibration With Humidity Condensing Simulator.

Mauricio Marlon Mazur¹, Sidnei Antonio Pianaro¹, Thiago Luis Menegotto¹, Kleber Franke Portella², Gino Capobianco¹; ¹Universidade Estadual de Ponta Grossa, ²Instituto de Tecnologia Para O Desenvolvimento

L-P60 Laser Surface Alloying Of Titanium With Niobium Powder

Lisiane Rocha Azevedo Carvalho¹, Milton Sergio Fernandes de Lima, Rubens Caram, João Fogagnolo¹; ¹Universidade Estadual de Campinas

L-P61 Obtaining Of Ni and Ni-Zr Metallic Coatings On 718 Inconel Superalloy Surfaces

Marinalda Claudete Pereira¹, Eduardo Norberto Codaro¹, Koshun Iha², Maria Auxiliadora Silva de Oliveira; ¹Faculdade de Engenharia de Guaratinguetá - Unesp, ²Instituto Tecnológico de Aeronáutica

L-P62 Passive-Active Oxidation Mechanism Of C/c-Sic Composite Using Plasma Torch

Roberson José da Silva^{1,2}, Tiago Moreira Bastos Campos¹, Gilmar Patrocínio Thim¹, Leonid Ivanovich Charakhovski¹, Homero Santiago Maciel^{1,2}, Gilberto Petraconi Filho¹; ¹Instituto Tecnológico de Aeronáutica, ²Universidade do Vale do Paraíba

L-P63 Influence Of Current Density and Temperature On The Morphology Of Electrodeposited Niobium Coatings

Antonio Fernando Sartori¹, Monique Azambuja¹; ¹Escola de Engenharia de Lorena - Usp

L-P64 Corrosive Behavior Of Dlc Films Deposited Via Piii&d Enhanced By Magnetic Field

Samantha de Fátima Magalhães Mariano¹, Elver Juan de Díos Mitma Pillaca¹, Mario Ueda¹, Rogério M Oliveira¹; ¹Instituto Nacional de Pesquisas Espaciais

L-P65 Characterization and Processing Of Ceramics Semiconductor Perovskite Structure.

Guilherme Gralik, Alessandra Elisa Thonsem, Dachamir Hotza, Fabiano Raupp Pereira, Cristian Alexandre Moraes

L-P66 Performance Evaluation Of Coatings Based Ni-Cr, Made By Thermal Spray and Subject To Testing Adhesive Wear.

Guilherme Ferrari Marangoni¹, Angela Beatriz Coelho Arnt¹, Marcio Roberto da Rocha¹; ¹Universidade do Extremo Sul Catarinense

L-P67 Corrosion Characterization Of Aisi 304 Treated By Nitrogen Piii In A Batch Processing System

Mayse Maciel Santos¹, Matheus M.n.f. Silva¹, Mario Ueda¹, Ataíde Ribeiro Silva Junior¹; ¹Instituto Nacional de Pesquisas Espaciais

L-P68 Evaluation Of Radiation Grafting Effects On Carbon Nanofiber Using X-Ray Diffraction Technique

Maria Cecília Evora¹, Davi Neves¹, Milton Sergio Fernandes de Lima¹, Marina Gorgulho², Leonardo Gondim de Andrade Silva³; ¹Instituto de Estudos Avançados, ²Universidade Federal de São Paulo, ³Instituto de Pesquisas Energéticas e Nucleares

L-P69 Cyclic Oxidation Of Aisi 441 Stainless Steel In Temperature 300°C For 900Hours.

Samara Saraiva Rodrigues¹, Givanilson Brito Oliveira², Maria Fatima Salgado^{2,1}, Maura Celia Cunha Silva², Ayrton de Sá Brandim; ¹Instituto Federal do Piauí, ²Universidade Estadual do Maranhão

L-P70 Stainless Steel Ferritic Aisi 409 Oxidation In Hightemperatures In Atmospheres Of Argon and Air Synthetic

Ediomar Costa Serra, Ayrton Sá Brandim¹, Diego Medeiros Santos, Olandir Vercino Correa, Lalgudi Venkataraman Ramanathan, Maria Fatima Salgado; ¹Instituto Federal do Piauí

L-P71 Theoretical Model Of Interaction Between Afm Tip and A Flat Surface

Henrique Duarte da Fonseca Filho¹, Rodrigo Prioli², Robert Zamora¹, Erveton Pinheiro¹; ¹Universidade Federal do Amapá, ²Pontifícia Universidade Católica do Rio de Janeiro

L-P72 Comparative Study Of Spinel Phase Formation On Conventional Oven and Microwave Oven

Bruno Vidal Almeida¹, Fabiana Silva Pereira¹, Aline Cristina Paes de Lima², Sara Carvalho¹, Robersio Marinho de Faria¹, Fernando Vernilli Júnior¹; ¹Escola de Engenharia de Lorena - Usp, ²Universidade de São Paulo

L-P73 Characterization Of Genosensor Surface For Diagnosis Of Epstein-Barr Virus

Renata Pereira Alves-Balvedi¹, Ana Cristina Honorato Castro¹, Andre Rezende de Figueiredo Oliveira, João Marcos Madurro, Ana Graci Brito-Madurro; ¹Universidade Federal de Uberlândia

L-P74 Study Of High Temperature Oxidation Of A Nickel Base Alloy In Exposures At 1000°C

Alexander Caytuero Villegas, Juan Manuel Pardal, Sérgio Souto Maior Tavares, Hugo Ribeiro da Igreja

L-P75 Uv/ozone Irradiation and Ar Plasma Surface Modification Of Polystyrene and Polymethylmethacrylate Solid Substrates For Use In Dna Biosensor Applications

Poliana Cristiana da Silva¹, Isaac Aarón Frías¹, Cesar Andrade¹, Renata Francisca Santos¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco

L-P76 Oxidation Behavior Of Niobium Treated By High Temperature Nitrogen Plasma Based Ion Implantation

Felipe de Campos Carreri¹, Aline Capella de Oliveira², Rogério M Oliveira, Mario Ueda; ¹Instituto Nacional de Pesquisas Espaciais, ²Instituto de Estudos Avançados

L-P77 On The Atomic Structure Of The Au/cr₂O₃/pd(111) Model Catalyst

Alex Sandre Kilian¹, Alexandre Pancotti², Abner de Siervo³, Richard Landers³, Jonder Morais¹; ¹Universidade Federal do Rio Grande do Sul, ²Universidade Federal de Goiás, ³Universidade Estadual de Campinas

L-P78 Plasma Treatment Applied To Metal Components Used In The Manufacture Of Industrial Mills

Paola Eger¹, Heloisa Regina Turatti Silva¹, Carlos Henrique Orssatto², Thiago de Alcantara Braglia¹, Max Barbonaglia Figueiredo¹, Jackson Fernando Bervian²; ¹Universidade do Sul de Santa Catarina, ²Indústria de Motores e Máquinas Ltda

L-P79 Analysis In Vitro Of Samples Of Titanium Chemically Treated

Tatiana Mendes de Santana¹, Neli Cunha Ferreira, Waldimir Carvalho¹, Cresus Vinicius Depes de Gouvêa¹, Cristina Costa de Almeida¹, Felipe Gusmão Campos¹; ¹Universidade Federal Fluminense

L-P80 Study Of Rheological Properties Of A Ceramic Coating To Carbon Based Refractory

Bruno Vidal Almeida¹, Fernanda Holanda Tonini¹, Sara Carvalho¹, Robersio Marinho de Faria¹, Fernando Vernilli Júnior¹; ¹Escola de Engenharia de Lorena - Usp

L-P81 Influence Of Abrasive Wear On Surface Quality Of Eucalyptus Sp. Wood In Sanding

Francisco Mateus Faria de Almeida Varasquim, Manoel Cléber de Sampaio Alves, Marcos Tadeu Tibúrcio Gonçalves

L-P82 Influence Of Grain Size On Surface Quality Of Eucalyptus Sp. Wood In Sanding

Manoel Cléber de Sampaio Alves, Francisco Mateus Faria de Almeida Varasquim, Marcos Tadeu Tibúrcio Gonçalves

L-P83 Adherence Evaluation Of Diamond-Like Carbon By Sclerometry Studies.

Laura Camila Diniz dos Santos, Lucia Vieira Santos Santos, Uílame Umbelino Gomes

L-P84 Second Harmonic Generation and Structural Change Induced By Thermal Poling Technique In Teo₂ Based Glasses

Fábio Alencar dos Santos, Marcio da Silva Figueiredo, Emerson C Barbano, Lino Misoguti, Luis Humberto da Cunha Andrade, Sandro Marcio Lima, João Carlos Silos Moraes

L-P85 Project and Construction Of A Sample Holder For Physical Deposition Processes Of Vapor Phase Of Thin Films

Hugo Borges de Quadros, Viviane Lilian Soethe, Patricio Enrique Bejar Rejas, Evandro Luis Nohara, Mirabel Cerqueira Rezende

L-P86 Effects Of Heat Treatment Of Wood Pinus Elliottii In The Sanding Process

Manoel Cleber de Sampaio Alves¹, Carlino Carvalho de Almeida¹, Larissa Ribas de Lima; ¹Campus Experimental de Itapeva - Unesp

L-P87 Study Of Corrosion On Aisi 316L Stainless Steel In Solutions With High Chloride Content

Surya de Jesus Cantarino¹, Alfredo Gonçalves Cunha¹, Marcos Benedito Jose de Freitas¹; ¹Universidade Federal do Espírito Santo

L-P88 The Influence Of Particle Size In The Process Sanding Plane Perpendicular Fibers

Mariane Alves da Fonseca R: Aristides Franco de Moraes R: Aristides Franco de Moraes¹, Manoel Cléber de Sampaio Alves¹, Alexandre Camargo da Silva¹; ¹Campus Experimental de Itapeva - Unesp

L-P89 Physico-Chemical Properties Of Piii Inconel 718

Ana Cláudia de Oliveira Hirschmann¹, Maria Margareth da Silva¹, Mario Ueda², Carlos de Moura Neto¹, Danieli Aparecida Pereira Reis³, Antonio Augusto Couto⁴; ¹Instituto Tecnológico de Aeronáutica, ²Instituto Nacional de Pesquisas Espaciais, ³Universidade Federal de São Paulo, ⁴Instituto de Pesquisas Energéticas e Nucleares

L-P90 Characterization Of The Surface Quality Of A Polymeric Coating With Flame Retardant Additive Subjected To Accelerated Artificial Weathering

Gisele Garcia do Nascimento¹, Luiz Claudio Pardini², Michelle Leali Costa³, Milton Faria Diniz²; ¹Instituto Tecnológico de Aeronáutica, ²Instituto de Aeronáutica e Espaço, ³Universidade Estadual Paulista

L-P91 Evaluation Of Colored Stainless Steel Astm 304 Using Autoclave Sterilization Procedures For Medical Instruments

Rosa Maria Rabelo Junqueira^{1,2}, Carlos Alberto Silva de Miranda³, Larissa Germana Oliveira Couto², Fernando Casanova Ricaldoni¹; ¹Universidade Federal de Ouro Preto, ²Instituto Senai de Inovação em Engenharia de Superfícies, ³Universidade do Estado de Minas Gerais

PROGRAM

L-P92 Severe Climatic Event (South Brazil, 2008) Investigation: Searching For Sama Influences
Rodrigo Sérgio Tiedt¹, Lucio Sartori Farenzena¹,
 Reinaldo Haas¹, Manoel Gustavo Petrucelli
 Homem²; ¹Universidade Federal de Santa
 Catarina, ²Universidade Federal de São Carlos

SYMPOSIUM N

Materials Education
Symposium

ORAL SESSIONS

* Invited Lecture

WEDNESDAY, OCTOBER 02

SESSION OS11-14 (15:00 - 16:20)
ROOM: 14

15:00 N-O1

Ceramic Ludo: Materials Science Within Reach Of Elementary Education

Eloah da Paixão Marciano¹, Maristela Dolores Marques¹,
 Maria Rita de Cássia Santos¹, Thiago Jabur Bittar¹,
 Elson Longo², Maria Fernanda do Carmo
 Gurgel¹; ¹Universidade Federal de Goiás, ²Universidade
 do Estado de São Paulo

15:20 N-O2

Nanotechnology and Chemistry Teaching: Promoting Scientific Education In The Sertão Of Pernambuco

Luciano da Nóbrega Azevedo¹, Maria Suely Costa da
 Câmara¹, Pedro Lemos de Almeida
 Junior¹; ¹Universidade Federal Rural de Pernambuco

15:40 N-O3

Nanotechnology and Atomic Structure: Proposal For The Teaching Of Chemistry In The 21st Century

Luciano da Nóbrega Azevedo¹, Maria Suely Costa da
 Câmara¹, Pedro Lemos de Almeida
 Junior¹; ¹Universidade Federal Rural de Pernambuco

THURSDAY, OCTOBER 03

SESSION OS13-14 (09:30 - 10:50)
ROOM: 14

09:30 N-O4

Entropy Flow: A Constitutive Function

Alessandro Ranulfo Lima Nery, Adalberto Bono
 Maurizio Sacchi Bassi

10:10 N-O5

Opportunities and Challenges To Developing An Interdisciplinary Bachelor'S Degree Program At Unifesp

Manuel Henrique Lente¹; ¹Universidade Federal de São Paulo

10:30 N-O6

Mechanical Properties Of Porous Reaction Bonded Mulite Aluminium Oxide Ceramic Compacts

Lucas Freitas Berti¹, Carlos Renato Rambo², Edson Bazzo², Rolf Janssen³, Dachamir Hotza²; ¹Universidade Tecnológica Federal do Paraná, ²Universidade Federal de Santa Catarina, ³Hamburg University Of Technology

POSTER SESSION

WEDNESDAY, OCTOBER 02

SESSION PS3 (16:40 - 18:00)
ROOM: Poster Session

N-P1 An Integrated Project-Based Course For Teaching Of Biomaterial Biocompatibility To Undergraduate Students

Daniela Costa Silva¹, Juliana Alves Côrtes¹, Róber Freitas Bachinski¹, Carolina Nascimento Spiegel¹,
 Gutemberg Gomes Alves¹; ¹Universidade Federal Fluminense

N-P2 Comparing Arc and Laser Welding For The Aisi 4130 Steel

Fabiana de Souza Neto¹, Antonio Jorge Abdalla¹, Milton Sergio Fernandes de Lima¹, Flavio Araripe D'oliveira²; ¹Instituto de Estudos Avançados, ²Instituto de Aeronáutica Espaço

N-P3 Adsorption Of Nucleic Acid Bases On Natural Zeolite: Ftir, X-Ray and Thermal Analyses Study.

Pedro Renato Anizelli¹, João Paulo Trevisan Baú¹,
 Cristine Elizabeth Alvarenga Carneiro¹, Antônio Carlos Saraiva da Costa², Dimas Augusto Morozin Zaia¹; ¹Universidade Estadual de Londrina, ²Universidade Estadual de Maringá

N-P4 Structure Models and Simulation Of X-Ray Scattering: Advances In Computational Methods

Sergio Luiz Morelhao¹; ¹Universidade de São Paulo

N-P5 Aprender Ciência Website: Modernization and Synchrony With Online Social Networking Service For Effective Diffusion Of Biomaterials and Spectroscopy Science News, and Providing Tools For Science Teachers

Yasmin Patricia de Oliveira¹, Juliana Pastor¹, Patricia Targon Campana¹; ¹Universidade de São Paulo

N-P6 Nanotechnology To Inspire The Learning

Ana Valéria Santos Lourenço¹, Karina M Mano¹; ¹Universidade Federal de São Paulo

N-P7 Impact Bending Of Rose Gum Thermally Modified Wood

André Luiz Missio¹, Pedro Henrique Gonzalez de Cademartori², Bruno Dufau Mattos³, Tainise Vergara Lourençon³, Darci Alberto Gatto³; ¹Universidade Federal de Santa Maria, ²Universidade Federal do Paraná, ³Universidade Federal de Pelotas

N-P8 London Theory: A Classical and Quantum Description

Pedro Rupf Pereira Viana¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo

N-P9 Masters Program In Materials Science Ufpi

Maria Onaira Gonçalves Ferreira¹, Carla Eiras¹, Edson Cavalcanti da Silva Filho¹; ¹Universidade Federal do Piauí

N-P10 Study Of Generating Crosslinking During The Manufacture Of Eva / Ldpe.

Luiz Antonio Barbosa Barbosa^{1,2}, Eduardo Luis Schneider¹; ¹Universidade Feevale, ²Braskem

N-P11 Experimentation and Theory Of Ceramic Materials Applied To Primary Education

Eloah da Paixão Marciano¹, Maristela Dolores Marques, Maria Rita de Cássia Santos, Thiago Jabur Bittar¹, Elson Longo, Maria Fernanda do Carmo Gurgel; ¹Universidade Federal de Goiás

N-P12 Students Evaluation Regarding Undergraduate Curriculum In Materials Engineering

Bruno Silveira Noremberg, Ricardo Ritter Barnasky, Fabio Rocha Bohns¹, Guilherme Kurz Maron¹, Tiago Guilherme Iepsen¹, Rafael Magalhães Triani¹, Sergio da Silva Cava¹; ¹Universidade Federal de Pelotas

N-P13 A Point-Of View From Undergraduates Students Of The Csf Program To The Education and Research Abroad

Bruno Silveira Noremberg¹, Anderson Thesing¹, Igor José Cherubin¹, Sergio da Silva Cava¹, Jacqueline Ferreira; ¹Universidade Federal de Pelotas

N-P14 Glass Ceramics Foams Produced By Gelcasting

Ida Eunice Favarin Pozzobom¹, Veronica Moreno¹, Tatiana Gisset Pineda-Vásquez¹, João Batista Rodrigues Neto¹, Eliandra de Souza Trichês¹, Antonio Pedro Novaes de Oliveira¹; ¹Universidade Federal de Santa Catarina

N-P15 Study Of Steel Drills As A Motivational Tool In The Materials Science Teaching

Neide Aparecida Mariano¹, Renato de Mendonça¹, Olavo Lago Oliveira¹, Laila Loro¹, Luiz Bonilha¹; ¹Universidade Federal de Alfenas

N-P16 Reactivity and Contraction Stress Of New Elastomers

Guilherme Duarte de Barros¹, Sergio da Silva Cava, Fabrício Ogliari; ¹Universidade Federal de Pelotas

N-P17 Thermal Performance Of Internal Environment In Real Models Built In Masonry Ceramic Bricks and Concrete Blocks.

Fabiola Lodi Accoroni Gonçalves, Maria Cristina Ramos de Carvalho, Grace Cristina Roel Gutierrez

SYMPOSIUM O

Science, Engineering, and Commercialization of Next Generation of Industrial, Electronic and Biomedical Devices

ORAL SESSIONS

* Invited Lecture

MONDAY , SEPTEMBER 30

**SESSION OS1-6 (09:30 - 10:30)
ROOM: 6**

09:30 O-O1*

Science and Technology Of Ultrananocrystalline Diamond: From The Laboratory To Products
John Carlisle

09:50 O-O2*

Small Business On Cvd-Diamond and Related Materials: Research, Development and Innovation Program
Vladimir Jesus Trava-Airoidi

10:10 O-O3*

Development Of Innovation - Case Csn
Fábio Lopes Pinto

PROGRAM

SESSION OS2-6 (10:50 - 12:30) ROOM: 6

10:50 O-O4*

Science and Technology Of Multifunctional Oxide and Ultrananocrystalline Diamond (Uncdtm) Thin Films; Applications To Development Of A New Generation Of Implantable Microelectronic and Biomedical Devices and Pathway To Commercialization

Orlando Auciello

11:10 O-O5*

The Same Materials, But Different Properties: Nanox's History!

Luiz Gustavo Pagotto Simões¹; ¹Nanox Tecnologia S/a

11:30 O-O6*

Perspectives Of Cosmetics Science Under The Dynamics Of Biomaterials. A New Generation Of Cosmetic Products Under The Prism Of Biomaterials.

Adriano Pinheiro

11:50 O-O7*

Science and Technology Of Coordinated "Doping" Of Transition Metal Oxides In Resistive Memories, and Device Physics Of Novel Non-Filamentary Memory Switching

Jolanta Celinska, Carlos A Paz de Araujo

POSTER SESSION

MONDAY , SEPTEMBER 30

SESSION PS1 (16:40 - 18:00) ROOM: Poster Session

O-P1 Development Of Bismuth Titanate Thick Films Obtained By Tape-Casting Method

Maria Gabriela Araújo Ranieri¹, Ederson Carlos Aguiar¹, Mario Cilense¹, Alexandre Z. Simões¹, José Arana Varela¹; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho"

O-P2 Pzt Dielectric Applications In Ceramic Commercial Capacitors At Low Frequencies

Lauro Paulo da Silva Neto, Jose Osvaldo Rossi, Ataide Ribeiro Silva Junior¹; ¹Instituto Nacional de Pesquisas Espaciais

O-P3 Pyroelectricity and Mechanisms Of Conductivity In Lead Free Ferroelectric Ceramics

Aimé Peláiz Barranco¹, Yuslin González Abreu¹, Idalci Cruvinel dos Reis², José de Los Santos Guerra³; ¹Universidad de La Habana, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universidade Federal de Uberlândia

O-P4 Investigation Of The Physical Properties Of Rare Earth-Modified $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Bi-Layered Aurivillius-Type Structure Ferroelectric Ceramics

Idalci Cruvinel dos Reis¹, Atair Carvalho da Silva¹, Cristiano Alves Guarany², Ruyan Guo³, Amar S. Bhalla³, José de Los Santos Guerra³; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de Uberlândia, ³University Of Texas San Antonio

O-P5 Investigation Of The Physical Properties Of Batio₃-Based Ferroelectric Ceramics

Marco Aurélio de Oliveira¹, Atair Carvalho da Silva², Rafael Bonacin de Oliveira³, Maria Ines Basso Bernardi³, Jean Claude M'peko³, Antonio Carlos Hernandes³, Cristiano Alves Guarany¹, José de Los Santos Guerra¹; ¹Universidade Federal de Uberlândia, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universidade de São Paulo

O-P6 Techniques For Analysis Of Coupling Factor In Piezoelectric Ceramics For Application As Sensors In The Aerospace Industry.

Denise Dias de Oliveira¹, José de Los Santos Guerra, Cristiano Alves Guarany¹; ¹Universidade Federal de Uberlândia

O-P7 Characterization Structural In Ccto:mg Obtained Bythe Soft Chemical Method

Ana Cristina Tolentino Cabral¹, Isabela Cristina Fernandes Vaz, Edelma Eieto Silva, Maria Aparecida Zaghe, Alexandre Zirpoli Simões, Elson Longo, Francisco Moura Filho¹; ¹Universidade Federal de Itajubá

O-P8 Morphological Properties Of Mo⁺⁶ Doped Ccto Ceramics

Isabela Cristina Fernandes Vaz¹, Ana Cristina Tolentino Cabral¹, Márcio Martins Lage Júnior¹, Manoel Ribeiro da Silva¹, Leinig Antonio Perazolli, Elson Longo, Francisco Moura Filho¹; ¹Universidade Federal de Itajubá

O-P9 Deposition Of Seed Layer By Inkjet Printing For Growing Of Zno Nanorods Arrays

Natiara Vaughn Madalossi, Talita Mazon

O-P10 Simulation Of Organic Thin Film Used In 3D Ministructure

Lilian Marques Silva¹, Eik Tenório¹, Jose Eduardo Manzoli²; ¹Faculdade de Tecnologia de Tatuí, ²Nuclear and Energy Research Institute, Ipen-Usp/sp

O-P11 Study Of Pvd-Type Silver Film Deposition On Ceramics For Use In Electronic Components

Ataide Ribeiro Silva Junior¹, Jose Osvaldo Rossi, Lauro Paulo da Silva Neto, Mario Ueda; ¹Instituto Nacional de Pesquisas Espaciais

O-P12 Possibility Of Using The B-Cyclodextrin In The Formation Of A Complex With Darunavir

Ana Carolina Kogawa¹, Ariana Zoppi², Marcela Raquel Longhi², Hérída Regina Nunes Salgado¹; ¹Universidade Estadual Paulista, ²Universidad Nacional de Cordoba

O-P13 Physico-Chemical Analysis Of Scaffolds Cultivated In Dexamethasone.

Gerson Arisoly Xavier Acasigua, Daikelly Iglesias Braghirolli, Douglas Gamba, Patricia Helena Pranke, Anna Christina Medeiros Fossati

O-P14 Optimization Of Face and Dive Milling Processes Using interchangeable Inserts On Ti6Al4V

Osmar Roberto Bagnato^{1,2}, Marcio Cucolo Rosales², Bruno de Cristo¹, Miqueias Vieira¹, Matheus Vellon Alves¹; ¹Universidade São Francisco, ²Laboratório Nacional de Luz Síncrotron

O-P15 The Effect Of Different Diameters Of Electrospun Nanofibers On The Attachment Of Mesenchymal Stem Cells

Fernanda Zamboni¹, Daikelly Iglesias Braghirolli¹, Patricia Pranke^{1,2}; ¹Universidade Federal do Rio Grande do Sul, ²Instituto de Pesquisa Com Células-Tronco

O-P16 Cell Adhesion On The Surface Of Pdlla/pbgs Scaffolds

Douglas Gamba¹, Daikelly Iglesias Braghirolli¹, Daniela Pavulack Pereira¹, C Weiss², Cesar Liberato Petzhold¹, Katharina Landfester², Patricia Pranke^{1,3}; ¹Universidade Federal do Rio Grande do Sul, ²Max-Planck Institute For Polymer Research, ³Instituto de Pesquisa Com Células-Tronco

O-P17 MgB₂ Wires and Tapes For Magnet Applications

Adriana Cristina Serquis, Cesar Sobrero, María Teresa Malachevski, Analía Leticia Soldati, Fabiana Gennari

O-P18 Exploiting Graphite-Epoxy Composite As Electrode Material For Bioelectroanalysis.

André Luiz Maia Azevedo¹, Renato Soares de Oliveira¹, Eduardo Ariel Ponzio¹, Juan Manuel Pardal¹, Felipe Silva Semaan¹; ¹Universidade Federal Fluminense

O-P19 Effect Of Sintering Temperature On The Crystal Structure, Microstructure and Dielectric Properties Of Nac₄Nb₅O₁₇ At Microwave Frequencies

Raz Muhammad¹, Yaseen Iqbal, Carlos Renato Rambo; ¹University Of Peshawar

O-P20 Production and Characterization Of Lead-Free Piezoelectric.

Tamires Françoso da Costa¹, Manuel Henrique Lente¹; ¹Universidade Federal de São Paulo

O-P21 A Stethoscope For Severely Hearing-Impaired Medical Students: A Low Cost and Easy Method For Social Inclusion

Marcus Telles Fadel, Fernanda Lika Tabushi, Alesio Horiuchi

O-P22 The Use Of Mensenchymal Stem Cells For The Reconstruction Of Thyroid Cartilage

Geraldo Pereira Jotz, Paula Rigon Soster, Carlos Afonso Becker, Marcelo Muccillo, Daniela Steffens, Daikelly Iglesias Braghirolli, Rui Lopes, Bernardo Mastella, Patricia Helena Pranke

TUESDAY , OCTOBER 01**SESSION PS2 (16:40 - 18:00)****ROOM: Poster Session****O-P23 Comparative Analysis Of The Performance Of Leds and Conventional Light Sources For Illumination.**

Edna Raimunda da Silva, Rero Marques Rubinger, Suelen Castro, Daniel Zaroni Pinto

SYMPOSIUM P**Advances in New Materials****POSTER SESSION****MONDAY , SEPTEMBER 30****SESSION PS1 (16:40 - 18:00)****ROOM: Poster Session****P-P1 Obtaining Alloy Ceramic Al₂O₃/nb₂O₅ For Application In Thermal Spray Plasma.**

Bruno Silveira Noremberg¹, Igor José Cherubin¹, Tiago Guilherme Iepsen¹, Edilson Nunes Pollnow¹, Sergio da Silva Cava¹, Margarete Regina Freitas Gonçalves¹, Carlos Pérez Bergmann², Rafael Magalhães Triani¹; ¹Universidade Federal de Pelotas, ²Universidade Federal do Rio Grande do Sul

P-P2 Preparation and Luminescence Of Coordination Polymer Doped With Eu³⁺ Ion.

César dos Santos Cunha, Danilo Mustafa, Ivan Guide Nunes da Silva, Hermi Felinto Brito

P-P3 High Luminescence Complexes Of Benzenetricarboxylate Sm³⁺-Doped Rare-Earth Anhydrous Complexes

Ivan Guide Nunes da Silva, Bruno Andreoli, Danilo Mustafa, César dos Santos Cunha¹, Hermi Felinto Brito; ¹Instituto de Química da Universidade de São Paulo

P-P4 Three Dimensional Documentation Of Acantholytic Changes In Pemphigus Foliaceus With Scanning Electron Microscopy

Ricardo Marques e Silva¹, Hiram Laranjeira de Almeida Jr, Nara Moreira Rocha; ¹Universidade Federal de Pelotas

P-P5 Evaluation Of The Synthesized Alumina Microstructure In Front Of The Addition Of Different Oxides

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P-P6 Characterized Study Methods Of Infrared Spectroscopy (Mir / Nir) Spectroscopy and Differential Scanning Calorimetry (Dsc) To Better Assess Healing Of Epoxy Resins

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P-P7 Evaluation Of Hardness Alloy Of Al₂O₃/nb₂O₅/sic

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P-P8 Effect Of Sintering Temperature and Time On Dielectric Properties Of Ba(Ti_{0.75}Zr_{0.15})O₃-(Ba_{0.77}Ca_{0.23})TiO₃ 50/50 Ceramics

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P-P9 The Size and Shape Of Glass Particles Probed By Crystallization Determined By Dsc

Roger Gomes Fernandes, Eduardo Bellini Ferreira

P-P10 Dielectric Properties Of Compositional Graded Batio₃/bazro₃/srtio₃ Ceramics

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P-P11 Application Of Gamma Irradiation For Incorporation Of Rubber Powder In The Formulations Of Acrylonitrile-Butadiene Rubber (Nbr)

Ludmila de Ysasa Pozzo Kiyan, Duclerc Fernandes Parra, Ademar Benévolo Lugão

P-P12 Electrical Properties Of Ceramic Composites Of The System Batio₃-Bazro₃ And Ba(Zr_xTi_{1-x})O₃

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P-P13 The Magnetocaloric Effect On Co Doped Ni-Mn-Ga Based Heusler Alloys

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P-P14 Study Process Thermodiffusion Vc On Steel For Cvd Diamond Film Deposition

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P-P15 Characterization Of The Experimental Alloy Ti-25Ta-25Nb For Orthodontic Applications

Mauricio Rangel Seixas

P-P16 Physical Properties Of Mate-Tea and Camden White Gum Polypropylene Composites

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P-P17 The Influence Of Crosslink Density On Tear Strength Of Natural Rubber Vulcanized

Maria Aparecida Oliveira, Jorge Carlos Dutra

P-P18 Techniques For Thermal Evaluation Of Ablative Materials Applied In Rocket Engines

Sandra Aparecida Coelho de Mello, Jorge Carlos Dutra, Silvana Navarro Cassu

P-P19 Physical Assessment and Mechanical Behavior Of Mortars Produced With Recycled Civil Construction wastes Generated In The City Of Itabora-Mg

Alaide Marta dos Santos¹, Carlos Augusto de Souza Oliveira¹, André Luís Riqueira Brandão¹, Flávio Alchaar Barbosa¹; ¹Universidade Federal de Itajubá

P-P20 Thermal and Morphological Characterization Of Uhmwpe/quasicrystal Composites

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P-P21 Infrared Welding Of Fibre-Reinforced Thermoplastics

Jeferson Oliveira¹, Ricardo Grato, Matheus Sian, José Ricardo Tarpani¹; ¹Universidade de São Paulo

P-P22 Laser Welding Of A Particle Reinforced Aa356 /sic Alloy

Ricardo Tadeu Aureliano Junior¹, Jose Ricardo Tarpani, Rafael Branco Sayama, Jeferson Oliveira¹; ¹Universidade de São Paulo

P-P23 The Parameters Optimization Of The Square Wave Voltammetry Applied To Cd Detection Using Doped Diamond Electrodes With Different Doping Levels.

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P-P24 Photoresponsive Naphthalene Diimide Hydrogel

Fátima Aparecida Das Chagas Silva, Eduardo R Triboni, Mário José Politi, Fabio Herbst Florenzano, Otavio Lisboa dos Reis

P-P25 Magnetic and Electrical Properties Of Pbxcu1-Xfe2O4 Ferrite.

Vander Alkmin dos Santos Ribeiro, Manoel Ribeiro da Silva, Claudiney de Sales Pereira Mendonça, Valesca Donizeti de Oliveira, Rero Marques Rubinger, Luiz Henrique Ribeiro, Marcelos Lima Peres¹, Geovani Rodrigues; ¹Universidade Federal de Itajubá

P-P26 Amylose-Praziquantel Complexes: Preparation and Thermal Properties.

Fernanda Mansano Carbinatto¹, Andréia Bagliotti Meneguini¹, Beatriz Ferreira Cury¹, Raul Cesar Evangelista¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

P-P27 Modified Palygorskite As An Adsorbent For Anionic Dyes

Saloana Santina Gomes Santos¹, Iêda Maria Garcia Santos¹, Ulysses Vieira Silva Ferreira¹, Antônio Gouveia Souza¹, Maria Gardennia Fonseca¹; ¹Universidade Federal da Paraíba

P-P28 Addition Of Mill Scale Mass Of Ceramic Low Fe₂O₃

Joana Gomes Meller¹, Angela Beatriz Coelho Arnt¹, Marcio Rocha da Rocha¹; ¹Universidade do Extremo Sul Catarinense

P-P29 Internal Bonding Of Particleboard Made Of Macadamia Nutshell and Eucalyptus Saligna

Bruno Santos Ferreira¹, Cristiane Inácio Campos¹, Marcos Tadeu Tibúrcio Gonçalves¹; ¹Universidade Estadual Paulista

P-P30 Study Of Magnetic and Electronic Properties Of Iron Oxides Nanoparticles On Graphite and Few Layers Of Graphene

Francisco José Fontelles Obelenis, Ana Champi

P-P31 Study Of Optical Absorption Property Of The Composite Polypropylene/yellow Beryl Submitted To Several Doses Of Gamma-Radiation.

Lucas Sátiro do Carmo¹, Luiz Tomaz Filho, Shiguo Watanabe; ¹Universidade de São Paulo

P-P32 Preparation and Characterization Of A Novel Composite Formed From The Adsorption Of Silver Hexacyanoferrate On The Titanium Phosphated Surface.

Loanda Raquel Cumba¹, Urquiza de Oliveira Bicalho¹, Devaney Ribeiro do Carmo¹; ¹Faculdade de Engenharia Campus de Ilha Solteira

P-P33 Synthesis and Characterization Of L-Tryptophan Compound With Cu (Ii)

Genilza da Silva Mello¹, Valdir Aniceto Pereira Junior¹, Iza Natália Queiroz Arruda¹, Adriano Buzutti Siqueira; ¹Universidade Federal de Mato Grosso

P-P34 Tribological Behavior Of Natural Rubber Coated With Plasma Deposited A-C:h Film

Fagner Marçal Andrade¹, Alexsandro dos Santos Evangelista da Cruz¹, Juan Lucas Nachez¹, Cherlio Scandiam², Dante Ferreira Franceschini¹; ¹Universidade Federal Fluminense, ²Universidade Federal do Espírito Santo

P-P35 Preparation and Size/shape Evaluation Of Gellan Gum Microcapsules Al3+ Ion Cross-Linked For Controlled Release Application

Andréia Bagliotti Meneguini, Fernanda Mansano Carbinatto, Beatriz Stringhetti Cury, Raul Cesar Evangelista

P-P36 Similarities and Dissimilarities Of Thermoluminescence Induced By γ-Rays, Uv Light, β-Rays and Proton Beam In Several Silicate Minerals

Shiguo Watanabe¹, Nilo Francisco Cano¹; ¹Universidade de São Paulo

P-P37 tl and Epr Properties Of Apophyllite Dependents On Point Defects

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P-P38 Quinolines Derivatives As Novel Sunscreening Agents

Hudson Caetano Polonini¹, Rafael Mafra de Paula Dias¹, Isabela Oliveira de Souza¹, Karla Mara Gonçalves¹, Nádia Rezende Barbosa Raposo¹, Adilson David da Silva¹; ¹Universidade Federal de Juiz de Fora

P-P39 Characterization Of Compression Test Of Cement-Wood-Slag Composite

Cristiane Inácio Campos, Fernanda Christiane Rossetto Dinhané, Bruno Santos Ferreira

P-P40 Co-Crystals: A New Strategy For Modification Of Physical-Chemical Properties Of Api

Aniele Zolin Tier¹, Caroline Raquel Bender¹, Izabelle de Mello Gindri¹, Keli Maiara Wust¹, Arieli Ledur Martins¹, Clarissa Piccinin Frizzo¹, Marcos Antonio Pinto Martins¹; ¹Universidade Federal de Santa Maria

P-P41 Properties Of Organic Functionalized Graphene-Epoxy Nanocomposites

Pedro Henrique Giagio¹, Bruno Henrique Ramos de Lima¹, Edson Roberto Leite¹; ¹Universidade Federal de São Carlos

P-P42 Study Of Portland Cement Paste Rehydrated By Characterization Techniques

Deyller de Sousa Lima¹, Aloízio Geraldo de Araújo Júnior¹, Adriano Galvão de Souza Azevedo¹, Kurt Strecker¹, Carolina Torga Lombardi¹, Sergio Luiz Moni Ribeiro Filho¹; ¹Universidade Federal de São João Del Rei

P-P43 Studies On The Co Incorporation Dynamics Into Zno Matrix Prepared By Solid-State Reaction and Its Magnetic Properties

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P-P44 Effect Of The Anion In The Aggregation Behavior Of Dicationic Ionic Liquids

Caroline Raquel Bender¹, Clarissa Piccinin Frizzo¹, Izabelle de Mello Gindri¹, Aniele Zolin Tier¹, Arieli Ledur Martins¹, Keli Maiara Wust¹, Marcos Antonio Pinto Martins¹, Marcos Antonio Villetti¹; ¹Universidade Federal de Santa Maria

P-P45 Influence Of The Clay Modified With Salts Of Al and Al-La In The Phosphate Adsorption Capacity In Aqueous

Marcus Venicio da Silva Fernandes¹, Giseli Allende de Souza¹, Camila Caldas Oliveira Passos², Anny Grazielly de Lima Nogueira¹, Thisiania Romero Vieira Soares¹, Lindomar Roberto Damasceno da Silva¹; ¹Universidade Federal do Ceará, ²Universidade Estadual do Ceará

P-P46 Evaluation Of Potential For Expansion In Steel Slag Aggregates By X-Ray Diffractometry and The Rietveld Method.

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P-P47 Adsorption On Graphene

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P-P48 Studies Of Structural, Magnetic and Hyperfineproperties Of Pyrochlore Systems (Tr_{1-x}Bi_x)₂Fetao₇(Tr = Gd, Bi) With 0.0 ≤ X ≤ 1.0.

Tayla Jaqueline Barragan Alves¹, Klebson Luceildo da Silva¹, Flavio Francisco Ivashita, Valdecir Biondo, Andrea Paesano Junior; ¹Universidade Estadual de Maringá

P-P49 Optimization Of Machining Parameters Of Green Ceramic Aiming To Achieve Near Net Shape

Marcos Gonçalves Júnior, Cesar Renato Foschini, Arthur Fiocchi, Rubens Neto, Gill Bukvic, Carlos Fortulan, Luiz Sanchez

P-P50 Device For Data Acquisition In Wood Turning

Raul Manoel dos Santos, Manoel Cléber de Sampaio Alves, Ivaldo de Domenico Valarelli, Marcos Garcia Faria de Almeida, Marcus Antonio Perreira Bueno

P-P51 Investigation Of Dehydration In Lactose Monohydrate

Laysa Pires de Figueiredo¹, Fabio Furlan Ferreira¹; ¹Universidade Federal do Abc

P-P52 Polymorphic Transition Between Forms (I and II) Of Rifampicin

Amanda Laura Ibiapino¹, Fabio Furlan Ferreira¹, Rafael C Seiceira², Antonio Carlos Trindade¹; ¹Universidade Federal do Abc, ²Fundação Oswaldo Cruz

P-P53 Modified Vermiculites As A Sorbent For Ranitine From Aqueous Solutions

Denise Brito França¹, Mirella Cabral Avelino¹, Graycyelle Rodrigues da Silva Cavalcanti¹, Mariana Brito Batista Pereira¹, Francisco de Assis Rodrigues Pereira¹, Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹, Maria Gardennia Fonseca¹; ¹Universidade Federal da Paraíba

P-P54 Direct Grafting Of Ethylene Sulfite Onto Silicic Acid Magadiite

Denise Brito França¹, Michelle Menezes Oliveira¹, Graycyelle Rodrigues da Silva Cavalcanti¹, Mariana Brito Batista Pereira¹, Antônio Gouveia Souza¹, Iêda Maria Garcia Santos¹, Maria Gardennia Fonseca¹; ¹Universidade Federal da Paraíba

P-P55 Factorial Experimental Design Study Of Welding Electrical Resistance In Pei / Carbon Fiber Composite

Ana Beatriz Ramos Moreira Abrahão, Samia Danuta Brejão de Souza¹, José Carlos Bravim Junior, Edson Cochieri Botelho, Vinicius Garcia Ribeiro, Jonas Frank Reis, Eliane Oliveira Romagnolli Araújo, Michelle Leali Costa; ¹Faculdade de Engenharia de Guaratinguetá - Unesp

P-P56 Mechanical Characterization Of Wood-Plastic Composite

Rosane Aparecida Gomes Battistelle¹, Natalia Martin Viola¹, Ivaldo de Domenico Valarelli¹, Manoel Joaquim da Silva¹, Barbara Stolte Bezerra¹; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho" - Unesp, Bauru

P-P57 Cellular Structure and Mechanical Properties Of Foams Based On Natural Rubber and Natural Rubber/styrene Butadiene Rubber Blends

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P-P58 Texture Evaluation Of In Situ Gelling System Consisting Of Polymers Derived From Polyacrylic Acid

Aline Martins Santos¹, Flávia Chiva Carvalho¹, Thais Emboaba Oliveira¹, Maria Palmira Daflon Gremião¹; ¹Faculdade de Ciências Farmacêuticas - Unesp/campus Araraquara

P-P59 Synthesis and Structural and Micro-**Structural Characterization Of BscCo Samples**

Juan Alfredo Guevara Carrió¹, Isac Almeida da Silva, Marcos Vinicius Suarmani Martins, Maria Olivia Argueso Mengod, Waldemar Alfredo Monteiro; ¹Universidade Presbiteriana Mackenzie

P-P60 Mechanical Properties and Microstructural Analysis Of Hot Extrusion Consolidated Ingots Of Aluminum Powder Reinforced With Nanoparticles Of Nickel Ferrite

Danielle Golebiowski Ren, José Micael Delgado Barbosa¹, Mauricio Mhirdau Peres, Mauricio Roberto Bomio Delmonte¹, Alberto Moreira Jorge Junior; ¹Universidade Federal do Rio Grande do Norte

P-P61 Obtaining The Metal-Ceramic Biocomposite Using High Energy Mill

Rayana Fernanda Ribeiro Lourenço¹, Daniel Assis Amâncio¹, José Veríssimo Toledo¹, Bruno Vidal Almeida², Gilbert Silva¹; ¹Universidade Federal de Itajubá, ²Escola de Engenharia de Lorena - Usp

P-P62 Glasses and Optical Fiber In Phosphate Matrix Containing Transition Metals

Clarissa Luiza Justino de Lima, Gaël Poirier, Fabia Castro Cassanjes

P-P63 Plasma Assisted Reduction Of Tin Oxide (SnO₂)

Bianca Barros Santos, Adonias Ribeiro Franco Júnior, Ramiro Conceição Nascimento Júnior

P-P64 Structural Characterization Of Enalapril Maleate and Hydrochlorothiazide

Juliana Alves Pereira Sato¹; ¹Universidade Federal do Abc

P-P65 Temperature Cause Asymmetric Vortex Penetrations By The Normal Thin Slit

Elwis Carlos Sartorelli Duarte¹, Rafael Zadorosny¹, Edson Sardella²; ¹Faculdade de Engenharia Campus de Ilha Solteira, ²Faculdade de Ciências - Unesp/bauru

P-P66 Study Of Crystal Structures With Yhe Use Of X-Ray Diffraction

Kelly Cristina de Lira Lixandrao¹; ¹Universidade Federal do Abc

P-P67 Synthesis, Characterization and Application Of Tio₂ In Photodegradation Of Rhodamine B

Regiane Cristina Oliveira, Elaine Cristina Paris, Cauê Ribeiro Oliveira¹; ¹Universidade Federal de São Carlos

P-P68 Adsorption Hydrocarbon Study By Lanthanide Luminescence Spectroscopy

Lidiane Macedo Alves de Lima, Mônica Freire Belian¹; ¹Universidade Federal Rural de Pernambuco

P-P69 Reduction Kinetics Of The Cobalt Oxide (Co₃O₄) Using Hydrogen Gas and Hydrogen Plasma

Maria Cristina Yukiko Nakayama¹, Bianca Barros Santos¹, Adonias Ribeiro Franco Júnior¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo

P-P70 Microstructure Characterization and Mechanical Properties Of Alumina-Zirconia Composites For Cutting Tool Applications

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P-P71 Improvement Of Rheological Properties Of Low Quality Bentonite Varieties From Boa Vista, Pb. Part Ii: Purification By Hydrocycloning

Verônica Cavalcanti Marques, Iago Bruno Campos Dias, Jefferson Bezerra Alves, Lyszandra Fernanda Araujo Campos, Ricardo Peixoto Suassuna Dutra, Heber Sivini Ferreira

P-P72 Comparative Study Of Mechanical Properties Of Three Different Resins In Laminates Of Carbon Fiber Fabric With Twill Weave.

Carlos Alberto Soufen, Marcelo Capella Campos

P-P73 Roughness Characteristics and Their Influence On Court Proceedings Between The Jet Of Water For Milling and Machining Of Composite Carbon Fiber, Fiberglass and Epoxy Resin Sq 2004.

Marcelo Capella Campos, Carlos Alberto Soufen

P-P74 Synthesis and Characterization Thermogravimetric and Morphologic Of Copper Hydroxide Developed By Simple Solution Routes

Carlos Augusto Cardoso Passos¹, Ian Pompermayer Machado¹, Leonnam Gotardo Merízio, Vinicius Toneto Abílio¹, Rodrigo Vieira Rodrigues², Luiz Carlos Machado, Antonio Augusto Lopes Marins, Emanuel Jose Bassani Muri; ¹Universidade Federal do Espírito Santo, ²Universidade de São Paulo

P-P75 Hybrid Coatings For Corrosion Protection Of Titanium

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P-P76 Making Polymer Plates Using Industrial Waste and Resin Castor

Victor Baldan¹, Javier Mazariegos Pablos¹; ¹Instituto de Arquitetura e Urbanismo, Universidade de São Paulo

P-P77 Heavy Ion Micro-Beam Production Through Glass Microcapillaries

Daniela Govoni Sotelo¹, Danieli Born Guerra¹, Ricardo Meurer Papaléo^{2,1}; ¹Pontifícia Universidade Católica do Rio Grande do Sul, ²Universidade Federal do Rio Grande do Sul

P-P78 Study Of Sintered Pellets Of Manganese Ore Waste

Margarida Márcia Fernandes Lima, Luiz Gustavo Pinto Souza, Leonardo Carvalho Oliveira de Souza, Rosa Malena Fernandes Lima, Leonardo Barbosa Godefroid

P-P79 Development Of Ceramic Particles Of Sic+Al2O3 For Coating Of Metal Surfaces By Thermal Spray Process

Tiago Guilherme Iepsen¹, Gian Francesco dos Reis Paganotto, Bruno Silveira Noremberg, Edilson Nunes Pollnow, Rafael Magalhães Triani, Maria Luyza Knapp Labonde, Margarete Regina Freitas Gonçalves, Sergio da Silva Cava, Carlos Pérez Bergmann;¹Universidade Federal de Pelotas

P-P80 Zirconia Ceramic's Processing With Equimolar Addition Of Yttria and Niobia and Air Sintering

João Marcos de Assis^{1,2}, Francisco Piorino Neto², Francisco Cristóvão Lourenço de Melo², Maria do Carmo de A. Nono¹; ¹Instituto Nacional de Pesquisas Espaciais, ²Instituto de Aeronáutica e Espaço

P-P81 Coatings Of Polyaniline and Polyaniline/melamine On 304 Stainless Steel: Electrosynthesis In Neutral Aqueous Media and Evaluation Of Corrosion Protection In NaCl 0,5 Mol/l

Marco Antonio Kresko Xavier, João Batista Floriano, Paulo César Borges

P-P82 Study Of Mechanical Behavior Of Composites Made From Polyester Resin Reinforced Fiber Plant Of Malva (Urena Lobata L.)

Rafaela Souza Oliveira, Márcio Paulo Araújo Mafra, Luís Fernando Nazaré Marques, Juliana Santos Rodrigues, Juliana Rodrigues Silva, Camila Yuri Negrão Konno, Daniel Rodrigues Oliveira

P-P83 Effect Of The Ferroelectric Matrix On Magnetoelectric Properties In Particulate Composites

Fabio Luis Zabotto, Alexandre José Gualdi, Adilson J A de Oliveira, José Antônio Eiras, Ducinei Garcia

P-P84 Analysis Of Milling Time In Ram Based On Ferrite

Marcos Paulo da Silva Romain, Míriam Kasumi Hwang Yassuda

P-P85 Synthesis Of Poly(Methyl Methacrylate-Co-N-Butyl Acrylate)/montmorillonite [Poly(Mma-Co-Bua)/mmt] Hybrid Latexes Through Raft-Mediated Emulsion Polymerization

Rodrigo Duarte Silva¹, Thaíssa Camargo Chaparro¹, Franck D'agosto², Muriel Lansalot², Elodie Bourgeat-Lami², Amilton Martins Santos¹; ¹Escola de Engenharia de Lorena - Universidade de São Paulo, ²University Of Lyon

P-P86 Dyadic Green's Functions For Diffraction Waves In Bilayer Graphene

Victor Dmitriev¹, Leonardo José Gomes Marcelino¹; ¹Universidade Federal do Pará

P-P87 Mechanical Analysis Of Sandwich Composite Plate Of Polystyrene (Ps) With Jatobá'S Wood Residues and Mesh Steel To Manufacturing Boats' Floor

Mikelly Chaves Cruz¹, Izael Pinho dos Santos¹, Luiz Paulo Nobre Lopes¹, Carmen Gilda Barroso Tavares Dias¹; ¹Universidade Federal do Pará

P-P88 Defect Correlated Room Temperature Ferromagnetism In Mn-Doped ZnO Bulk Samples

Hugo Bonette de Carvalho¹, Viviane Maciel Almeida¹, Angela Ortiz de Zevallos², Alexandre Mesquita³, Person Pereira Neves², Xavier Gratens⁴, Valmir Antonio Chitta⁴, Antonio Carlos Doriguetto², Antonio Claret Soares Sabioni¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Alfenas, ³Universidade Estadual Paulista Júlio de Mesquita Filho, ⁴Universidade de São Paulo

P-P89 Characterization As Mechanical Properties Of Biodegradable Films Based On Manioc Starch, Glycerol and Bagasse Of Barley

Taynara Rezende Machado, Danilo Martins Santos, Diego Palmiro Ramirez Ascheri

P-P90 Use Of Undoped and Aluminium Doped Zinc Oxidefilms In Sensing Humidity

Shobhna Dixit¹, R K Shukla², Atul Srivastava², Anchal Srivastava²; ¹Pranveer Singh Institute Of Technology, ²Academic Staff College University Of Lucknow

P-P91 Theoretical and Experimental Study Of Resistance In Concrete Sleepers To Static and Cyclic Loading

Stefany Coqueiro Monteiro, Wellington Ribamar Sousa, Iedo Alves de Souza, Antônio Jorge Parga, José Rivas Mercury, Elson Longo

P-P92 Study Of Microstructure Of Al4.5%cu Deformed By Cold Swaging

Roberta Alves Gomes Matos, Daniel Assis Amâncio¹, José Veríssimo Toledo¹, Mirian de Lourdes Noronha Motta Melo¹, Carlos Alberto Rodrigues¹, Gilbert Silva¹; ¹Universidade Federal de Itajubá

P-P93 Production and Characterization Of Aisi 4340 Steel Obtained By Powder Metallurgy

Daniel Assis Amâncio¹, José Veríssimo Toledo, Gilbert Silva¹; ¹Universidade Federal de Itajubá

P-P94 Synthesis and Characterization Of Polymeric Nanocomposites (Pncs) Of Poly(Methyl Methacrylate-Co-N-Butyl Acrylate) P(Mma-Co-Bua) and Layered Double Hydroxides (Ldhs) Through Miniemulsion Polymerization

Rodrigo Duarte Silva, Liliane Maria Ferrareso Lona, Marc Arnold Dubé

P-P95 Eu and Li Effect On Structural, Thermal and Optical Properties Of Highly Transparent Cabo and Calibo Glasses

Seila Rojas Souza¹, José Ezequiel de Souza, Keizo Yukimitu, Antonio Carlos Hernandez; ¹Fundação Universidade Federal da Grande Dourados

P-P96 Large Entropic Magnetocaloric Effect and Refrigerant Capacity Near Room Temperature In As-Cast $Gd_5Ge_2Si_{2-x}Sn_x$ Compounds

Alexandre Magnus Gomes Carvalho^{1,2}, Julio Cesar Guimarães Tedesco³, Manoel José Mendes Pires⁴, Max Erik Soffner⁵, André Oliveira Guimarães⁵, Antonio Manoel Mansanares³, Adelino de Aguiar Coelho³; ¹Universidade Federal de São Paulo, ²Instituto Nacional de Metrologia, Qualidade e Tecnologia, ³Universidade Estadual de Campinas, ⁴Universidade Federal dos Vales do Jequitinhonha e Mucuri, ⁵Universidade Estadual do Norte Fluminense Darcy Ribeiro

P-P97 Influence Of The Thickness On The Performance Of Pani/carbon Black-Based Microwave Absorbers

Simone Souza Pinto¹, Joseane Rocha Pimentel Gonçalves¹, Mirabel Cerqueira Rezende¹; ¹Instituto Tecnológico de Aeronáutica

P-P98 Study Of Microstructure Of Al4.5%cu Deformed By Cold Swaging

Roberta Alves¹, Daniel Assis Amâncio¹, José Veríssimo Toledo¹, Carlos Rodrigues¹, Gilbert Silva¹; ¹Universidade Federal de Itajubá

P-P99 Analisis Of Axial Compression Resistance Of Eco-Concrete Doped With Powder Of Marble and Fiber-Tire

Afonso Cesar Lelis Brandão^{1,2}, Celso Luchezzi¹; ¹Universidade Presbiteriana Mackenzie, ²Universidade da Amazônia

P-P100 Copper (Ii) Adsorption By Metakaolinite / Chitosan Composite

Marilia de Albuquerque Oliveira, Thisiania Romero Vieira Soares, Anny Grazielly de Lima Nogueira, Lindomar Roberto Damasceno da Silva, José de Araújo Nogueira Neto

P-P101 Cellulose As Matrix For Controlled Release System.

Juçara Pereira Hobold¹, Ayres Morgado¹, Solange Mielke¹, Daniela Bresolin¹, Diogo Derrossi Klein¹; ¹Universidade Federal de Santa Catarina

P-P102 ‘Pente de Macaco’ (Apeiba Tibourbou Aubl) : An Alternative To Increase In Polymer Composites After Mercerization.

Juliana Santos Rodrigues¹, Márcio Paulo Araújo Mafra¹, Rafaela Souza Oliveira¹, Juliana Rodrigues Silva, Camila Yuri Negrão Konno, Barabara Thays Rodrigues Almeida, Roberto Tetsuo Fujiyama¹, Luís Fernando Nazaré Marques¹; ¹Universidade Federal do Pará

P-P103 Assessment Of Thermal Conductivity Of Carbon Fiber/phenolic Resin Composites During Pyrolysis

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Fábio Pereira Ramanery, Alexandra Apisiciteli Mansur, Herman Sander Mansur¹; ¹Universidade Federal de Minas Gerais

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Anderson Thesing¹, Marony Garcia Gutierrez¹, Carolina Alves¹, Antonio da Silva¹, Jacqueline Ferreira¹; ¹Universidade Federal de Pelotas

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André Q. Stelle, Vinicius A. D. B. Lindo¹, Gerson Luiz Mantovani¹; ¹Universidade Federal do ABC

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Lívia Maria de Castro Sousa¹, Débora Gonçalves¹; ¹Universidade de São Paulo

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Gerusa de Cássia Salado¹, Eduvaldo Paulo Sichieri¹; ¹Instituto de Arquitetura e Urbanismo - Usp

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Ester Pinheiro Santos¹, Roberta Rinaldi², Maria do Carmo de A. Nono¹, Maria Lucia Caetano Pinto da Silva²; ¹Instituto Nacional de Pesquisas Espaciais, ²Escola de Engenharia de Lorena - Usp

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Katielly Tavares Santos¹, José Brás Barreto de Oliveira, Américo Sheitiro Tabata, Mark Hopkinson; ¹Pós-Graduação em Ciência e Tecnologia de Materiais - Unesp/bauru

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Viviane Muniz Fonseca¹, Alan Jones de Lira Melo¹, Julio Cesar Fernandes Fonseca¹, Raul Silveira Ribeiro¹, Zalman Dantas Cruz¹; ¹Universidade Federal do Rio Grande do Norte

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Bruno Lopes Valentim¹, Sérgio Souto Maior Tavares², Marcelo Camargo Severo de Macêdo¹; ¹Universidade Federal do Espírito Santo, ²Universidade Federal Fluminense

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Maiza da Silva Ozório¹, Elton Aparecido Prado Reis¹, Eduardo Roque Budemberg², Aldo Eloizo Job¹; ¹Fct-Unesp Campus de Presidente Prudente, ²Escola de Engenharia de Lorena - Usp

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Douglas Fernandes de Souza¹, Eduardo Henrique Martins Nunes¹, Manuel Houmar¹, Wander Luiz Vasconcelos¹; ¹Universidade Federal de Minas Gerais

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Marcelo Vicente Forestieri Fernandes, Raquel Badia Campos de Rezende, Carla Gouvêa Wizel¹; ¹Universidade Presbiteriana Mackenzie

P-P183 properties Of Organic Functionalized Graphene-Epoxy Nanocomposites

Pedro Henrique Giagio¹, Bruno Henrique Ramos de Lima¹, Edson Roberto Leite¹; ¹Universidade Federal de São Carlos

PROGRAM**WEDNESDAY, OCTOBER 02****SESSION PS3 (16:40 - 18:00)****ROOM: Poster Session****P-P184 Influence Of Time On Copper Oxide Reduction Under Hydrogen Plasma**

Simão Vervloet Ramos¹, Adonias Ribeiro Franco Júnior¹, Estéfano Aparecido Vieira¹, Ramiro Conceição Nascimento Júnior¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo

P-P185 Reduction Kinetics Of The Cobalt Oxide (Co₃O₄) Using Hydrogen Gas and Hydrogen Plasma

Maria Cristina Yukiko Nakayama¹, Adonias Ribeiro Franco Júnior¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo

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