

## 1 PERSONAL DATA

First Name: JUAN MANUEL  
Name: ANDRES BORT  
Identity Card: 18907344 X  
Birth Date: 1 October 1956  
Birth Site: Vila-Real (Castelló, Spain)  
Home Address: Partida Madrigal  
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Graduation: 1978, Universitat de Valencia  
Ph.D. dissertation: 1982, Universitat de Valencia  
Current position: 1994, Full Professor, Physical Chemistry, Universitat Jaume I

## 2 ACADEMIC AND RESEARCH FORMATION

- Philosophical Degree in Chemistry; thesis supervised by Prof. Estanislao Silla. Universitat de Valencia, 1982.
- Predoctoral stays in the Department of Chemistry and Molecular Biology, Swedish University of Agricultural Sciences, in the group of Prof. O. Tapia, Sweden
- Postdoctoral work in the Department of Physical Chemistry, Uppsala University, Sweden, in the group of Prof. O. Tapia, in the laboratory of Theoretical Chemistry, Université Pierre et Marie Curie, Paris, France, in the groups of Prof. B. Silvi and C. Minot and Interdisciplinary Laboratory of Electrochemical and Ceramics, Sao Carlos University. Sao Carlos, Brazil, in the group of Prof. E. Longo.
- Invited Professor at Université Pierre et Marie Curie, Paris, France (1999-2000) and Interdisciplinary Laboratory of Electrochemical and Ceramics, Sao Carlos University. Sao Carlos, Brazil (2008-2009)
- Other short stays in the Dipartimento di Chimica e Chimica Industriale, Università degli Studi di Pisa, Pisa, Italia (Prof. J. Tomasi), and in the group of Prof. Ian Williams, University of Bath (UK).
- Theses supervised: 18 Ph. D.

## 3 ACADEMIC MANAGEMENT

Two years as director of International relationships, seven years as Director of the Department of Experimental Sciences and five years as Vice-rector of Scientific and Technological Promotion (Universitat Jaume I)

## 4 RESEARCH PROJECTS

From 1985, we have developed more than forty five research projects as principal research, funded by European Community, Ministerio de Educación y Ciencia, Generalitat Valenciana, Fundación Bancaixa-UJI.

## 5 MAIN LINES OF RESEARCH

Electronic structure and chemical reactivity. Molecular mechanics of chemical reactions. Enzyme Catalysis: Quantum Mechanics (QM)/Molecular Mechanics (MM) and Molecular Dynamics studies. Theoretical organic, organometallic and biological chemistry. Theoretical and computational Nanotechnology. Topological analysis of electronic distribution. Electric and magnetic properties of materials. High pressure effects in materials. Growth, crystallization and formation processes in crystals. Optical properties of nanomaterials. Diffusion processes in solid state.

## 6 PUBLICATIONS

Articles: 332 published + 9 submitted for publication.

Books: 15 published (text books)

Book Chapters: 9 published (research)

2 published Book as Co-editor

### 7 Ten most relevant publications last five years (from 2008-2012):

- (1) S. Martí, J. Andrés, V. Moliner, E. Silla, I. Tuñón and E. J. Bertrán, **Journal of the American Chemistry Society**, 130, 2894-2895 (2008).
- (2) S. Martí, J. Andrés, V. Moliner, E. Silla, I. Tuñón and J. Bertrán, **Chemical Society Review**, 37, 2634-2643 (2008).
- (3) M.L. Moreira, J. Andrés, E. Longo and J.A. Varela, **Crystal Growth and Design**, 9, 833-839 (2008)
- (4) S. Martí, J. Andrés, V. Moliner, E. Silla, I. Tuñón and J. Bertrán, **Journal of the American Chemistry Society**, 131, 16156-16161 (2009).
- (5) D. Stroppa, L. Montoro, A. Beltrán, T. Conti, R. da Silva, J. Andrés, E. Longo, E. Leite and A. Ramirez, **Journal of the American Chemistry Society**, 131, 14544-14548 (2009)
- (6) P. González-Navarrete, L. Gracia, M. Calatayud and J. Andrés, **Journal of the Physical Chemistry C**, 114, 6039-6046 (2010)
- (7) D. Stroppa, L. Montoro, A. Bertrán, T. G. Conti, R. da Silva, J. Andrés, E. Leite, E. Longo, and A. Ramirez, **Chemical Communications**, 47, 3117-3119 (2011).
- (8) D.P. Volanti, A.G. Sato, J. Andrés, M. O. Orlandi, J. M. C. Bueno, and E. Longo, **ChemCatChem**, 3, 839-843 (2011).
- (9) P. González-Navarrete, J. Andrés and S. Berski, **Journal of Physical Chemistry Letters**, 3, 2500-2505 (2012).
- (10) D.S.L. Pontes, L. Gracia, F.M. Pontes, A. Beltrán, J. Andrés and E. Longo, **Journal of Materials Chemistry**, 22, 6587-6596 (2012).

## 8 Nacional and International Congress

More than 250 Communications at both nacional and international congresses.

25 as Invited Speaker in international congresses and 10 in national congresses

5 as Chairman in international congresses and 2 in national congresses

## 9 Conferences

25 Conferences in different Universities of Brazil, Chile, France, Italy and Sweden.

20 Conferences in different Universities of Spain (Barcelona, Cádiz, Gerona, Granada, La Coruña, Madrid, Oviedo, País Vasco, Santiago de Compostela, Sevilla, Valencia, Vigo, Zaragoza)

## 10 ISI Essential Science Indicators

h index= 42

Most cited authors in Chemistry (updated on April 2013), total number of citations 6085, 4795 are no autocited, and citations per paper 19.05

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