

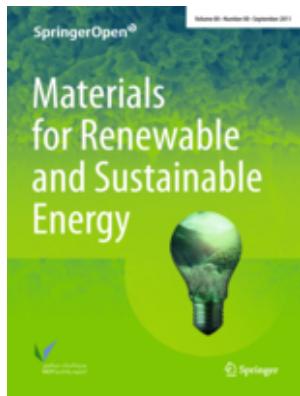
## **Symposium D**

### **Title:**

Materials and Devices for Renewable Energy, Sustainability and Environmental Protection

### **Publication**

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### **Scope:**

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.

### **Session Topics:**

- 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

### **Invited Speakers:**

Ifor D. W. Samuel, University of St Andrews, UK  
Sergio Gama, UNIFESP, Brazil  
Adriana C. Serquis, CONICET, Argentina  
Andre S. Ferlauto, UFMG, Brazil-University of Toledo, USA

**Symposium organizers:**

Daniel Zanetti de Florio, Federal University of ABC, Center for Engineering, Modeling and Applied Social Sciences, Brazil  
Francisco das Chagas Marques, State University of Campinas, Institute of Physics, Brazil  
Ana Flávia Nogueira, State University of Campinas, Chemistry Institute, Brazil  
Fabio Coral Fonseca, Institute of Energy and Nuclear Research, Center for Fuel Cells and Hydrogen, Brazil

**Scientific Committee:**

Alessandra Zenatti, UFABC  
Ana Paula Cysne Barbosa, UFRN  
Carlos Triveño Rios, UFABC  
Charles L. Silva, UFV  
Danilo Justino Carastan, UFABC  
Eduardo Caetano Souza, IPEN  
Elisabete Santiago, IPEN  
Flavio Leandro Souza, UFABC  
Gerson Luiz Mantovani, UFABC  
Humberto Naoyuki Yoshimura, UFABC  
Izete Zanesco, PUCRS  
João Eduardo Benedetti, UNICAMP  
Jorge Diego Marconi, UFABC  
José Carlos Moreira, UFABC  
Leila Cruz, IME  
Luiz Fernando Setz, UFABC  
Marcio Gustavo Di Vernieri Cuppari, UFABC  
Marcos Jose Leite Santos, UFRGS  
Pedro Augusto de Paula Nascente, UFSCar  
Renata Ayres Rocha, UFABC  
Sydney Ferreira Santos, UFABC  
Vagner Eustáquio de Carvalho, UFMG  
Vânia Trombini Hernandes, UFABC