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Nanotechnology for Energy Materials

Guest Editors:

Prof. Dr. Mingdong Dong

Interdisciplinary Nanoscience
Center, Aarhus University, 8000
Aarhus C, Denmark

Prof. Dr. Bo Liu

Laboratory of Functional
Molecular and Materials, School
of Physics and Optoelectronic
Engineering, Shandong
University of Technology, Zibo
255000, China

Prof. Dr. Jing Zhong

School of Civil
Engineering/Institute of
Advanced Ceramics, Harbin
Institute of Technology, Harbin
150001, China

Message from the Guest Editors

The global energy crisis has triggered an increasing demand for novel materials that advance the performance of energy-related technologies. The development of nanomaterials and nanotechnologies has provided powerful tools to promote the performance of energy materials and devices, including lithium batteries, supercapacitors, fuel cells, and solar cells by overcoming the limitations through proper material and structure design at the nanoscale. In recent decades, tremendous progress has been made in those energy materials by taking advantage of nanotechnology. The primary objectives of nanotechnology for energy materials are improving energy storage/conversion efficiency and reliability. Nevertheless, there are emerging issues to be addressed for energy materials, structures and complex electrochemistry at such small scale. This Special Issue is dedicated to Nanotechnology for Energy Materials, with the aim of deepening our understanding of electrochemistry at the nanoscale.

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Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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