



energies



an Open Access Journal by MDPI

Nanocatalysis for Green and Sustainable Chemical Processes

Guest Editors:

Prof. Dr. Shaobin Wang

School of Chemical Engineering
and Advanced Materials,
University of Adelaide, Adelaide,
SA 5005, Australia

Dr. Xiaoguang Duan

School of Chemical Engineering
and Advanced Materials, The
University of Adelaide, Adelaide,
SA 5005, Australia

Deadline for manuscript
submissions:

closed (30 September 2019)

Message from the Guest Editors

Versatile chemical processes, including photocatalysis, electrochemistry, hydrocarbon conversions, environmental remediation, and chemical synthesis, have significantly secured and driven the rapid development of human society in the last few decades. More recently, green chemistry and engineering, composed of a wide array of environmentally-friendly catalytic processes, have merged as a cohesive field in the scientific community. The development and utilization of functionalized nanomaterials, with characteristic crystalline, morphology, structure, and physicochemical properties, further empower heterogeneous catalytic reactions and open up a new avenue to the green chemical processes.

This Special Issue aims to cover recent progress and advances the design and functionalization of novel nanostructured metal, nonmetal (carbon) and hybrid materials, characterization, and evaluation of the performances in nanoscaled chemical reactions, as well as promoting mechanistic innovations in heterogeneous catalysis, environmental science, energy storage and conversion, and green chemical production processes.



mdpi.com/si/20181

Special Issue



energies



an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)