



Advances in Heterocatalysis by Nanomaterials

Guest Editors:

Prof. Dr. Ioannis V. Yentekakis

Technical University of Crete
(Polytechnion Kritis), Laboratory
of Physical Chemistry and
Chemical Processes, Chania,
Crete, Greece

yyentek@isc.tuc.gr

Prof. Dr. Wei(Willy) Chu

Key Laboratory of Green
Chemistry and Technology of
Ministry of Education (MOE),
College of Chemical Engineering,
Sichuan University, Sichuan
610065, China

chuwei1965@scu.edu.cn

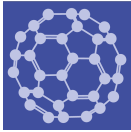
Deadline for manuscript
submissions:

closed (20 May 2019)

Message from the Guest Editors

Heterogeneous catalysis played, and will continue to play, a major key role in industrial processes for large-scale synthesis of commodity chemicals of global importance, and in catalytic systems that possess a critical role in energy generation and environmental protection approaches. Numerous eco-friendly and cost-efficient applications of heterogeneous catalysis involve, for example, De-NO_x, De-N₂O and VOCs emission control systems, waste treatment, photocatalytic, bio-refinery, CO₂ utilization and fuel cells applications, as well as hydrocarbon processing for H₂, added-value chemicals and liquid fuels production, among many others. The Special Issue aims to cover current experimental and/or computational (e.g., DFT calculations) studies, in the field of heterogeneous catalysis by nanomaterials. Advanced synthesis routes, characterizations, activity/stability evaluation and fundamental understanding of structure-activity relationships or possible metal-metal and metal-support interactions under desired reactions, are very welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Author Benefits

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

High visibility: indexed by the Science Citation Index Expanded (Web of Science), Scopus, Chemical Abstracts, Inspec and Polymer Library. Citations available in PubMed, full-text archived in PubMed Central

Rapid publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 12.5 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the second half of 2018).

Contact Us
