

## Special Issue

# Advances in Heterocatalysis by Nanomaterials

### 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<sub>x</sub>, De-N<sub>2</sub>O and VOCs emission control systems, waste treatment, photocatalytic, bio-refinery, CO<sub>2</sub> utilization and fuel cells applications, as well as hydrocarbon processing for H<sub>2</sub>, 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.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2019)



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### 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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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### Editor-in-Chief

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