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# **Advances in Heterocatalysis by Nanomaterials**

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Deadline for manuscript submissions:

closed (31 August 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-NOx, De-N2O 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 svnthesis routes. characterizations, activity/stability evaluation and fundamental understanding of structureactivity relationships or possible metal-metal and metalsupport interactions under desired reactions, are very welcome.









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### **Editor-in-Chief**

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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, 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, metalorganic 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.

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