Special Issue

Novel Nano-Heterojunctions with Enhanced Catalytic Activity

Message from the Guest Editors

In the past few decades, nano heterojunction materials, including but not limited to type I heterojunction, type II heterojunction, S-scheme heterojunction, Z-scheme heterojunction, p-n heterojunction, Schottky heterojunction, etc., have attracted great interest in the fields of energy conversion and storage, environmental remediation and catalytic fields because of their striking properties. Although the application of various nano heterojunction materials in the catalytic field has been reported, there are still many challenges to be considered develop catalytic materials with high stability, high efficiency and selectivity. We are very pleased to invite you to submit your manuscript to the Special Issue “Novel Nano-heterojunctions with Enhanced Catalytic Activity” to share the basic and applied research of environmental catalysis related to innovative methods, characterization and mechanism research. The topics covered by this Special Issue include (but are not limited to):

- Advanced oxidation process;
- Biocatalysis;
- Nanotechnology;
- Carbon dioxide reduction;
- Photoelectric water decomposition for hydrogen production;
- Recycling/reuse catalysis.

Guest Editors

Dr. Yongfang Yang

Institute of Polymer Science and Engineering, Hebei University of Technology, Tianjin 300130, China

Dr. Kai Ge

School of Chemical Engineering and Technology, Hebei University of Technology, Tianjin 300130, China

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Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

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