

Special Issue

Noble Metal-Based Nanomaterials for Heterogeneous Catalysis

Message from the Guest Editors

Noble metals have received widespread attention in the field of heterogeneous catalysis due to their unique intrinsic properties and irreplaceable catalytic activities. However, the scarcity and high cost limit their large-scale application; thus, maximizing the utilization efficiency of noble metals is of significance for the pursuit of sustainable energy. Submissions to this Special Issue, entitled “Noble Metal-Based Nanomaterials for Heterogeneous Catalysis” are welcome in the form of original research papers or short reviews. The topics include but are not limited to:

- Electrocatalysis, including fuel cells, water electrolyzers, small molecule electrooxidation, CO₂ reduction reaction, etc.;
- Photocatalysis, including photocatalytic water splitting, degradation and mineralization of organic pollutants, CO₂ reduction into hydrocarbon fuels, selective organic synthesis, etc.;
- Thermal catalysis, including CO₂ hydrogenation, CO hydrogenation, methanethiol from H₂S-rich syngas and CH₃OH-H₂S routes, HCOOH dehydration, etc.;
- Others topics related to heterogeneous catalysis.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2024)



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