catalysts

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Design and Synthesis of Metal Nanocatalysts for Energy and Environmental Applications

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Deadline for manuscript submissions:
closed (31 August 2023)

Message from the Guest Editors

Dear Colleagues,

In the past few decades, significant research efforts have been devoted in the techniques for the design and synthesis of new heterogeneous catalysts for bringing about a reduction in greenhouse gases, the production of H_2 and syngas technologies, and a reduction in the NO_x and soot production for clean combustion engines. This Special Issue invites original papers on the latest research activities on the “design and synthesis of metal nanocatalysts for energy and environmental applications.” We also invite review articles that include a survey of the state-of-the-art design and applications of metal nanocatalysts for emerging applications.

This Special Issue will focus on, but is not limited to:

- Heterogeneous catalysis;
- Hydrogen generation and storage;
- CO_2 reduction;
- Solar fuels;
- Photocatalysis/plasmonic catalysis;
- Renewable energy;
- Pollutant degradation.