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Nanomaterial-Mediated Green Catalysis

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Message from the Guest Editors

The 18th century marked a pivotal shift towards large-scale production during the Industrial Revolution, bringing both progress and significant environmental challenges. The scientific community encounters innovative challenges in developing materials and processes that are more sustainable. This involves minimizing waste, enhancing catalyst performance through materials engineering, and, critically, substituting toxic solvents with more sustainable alternatives. Meanwhile, renewable sources play an essential role, with green hydrogen and water-splitting processes highlighted as promising alternatives aligned with the pursuit of a more sustainable and clean energy future.

This Special Issue, titled "Green Catalysis Facilitated by Nanomaterials", aims to cover recent advances in the synthesis of new materials and processes aligned with the concept of green catalysis. Topics of interest for this Special Issue include, but are not limited to, the following:

- Catalysis in Sustainable Hydrogen Production;
- Degradation of Emerging Contaminants through Catalysis;
- Catalytic Synthesis for Obtaining Value-Added Molecules;
- Carbon Dioxide Capture;
- Use of Biochar in Catalysis.

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Message from the Editor-in-Chief

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