

Special Issue

Novel Nanocatalysts for Sustainable and Green Chemistry, 2nd Edition

Message from the Guest Editor

Nanocatalysts are increasingly being recognized as indispensable tools for enabling sustainable practices in chemical transformations. Through this Special Issue, we provide a platform for researchers to share their pioneering findings, innovative methodologies, and significant advancements in the design, development, and application of nanocatalysts with a dedicated focus on fostering green and sustainable chemistry.

- Synthesis and advanced characterization of novel nanocatalysts;
- Catalytic processes enabling green and sustainable chemical transformations;
- Environmental impact, circular economy approaches, and life cycle assessment of nanocatalysts;
- Integration of nanotechnology in industrial processes for eco-friendly and energy-efficient production;
- Nanocatalysis driven by renewable energy sources (e.g., photocatalysis, electrocatalysis, plasma-assisted catalysis);
- Computational design, machine learning, and artificial intelligence in the development and optimization of nanocatalysts.

Contributions from diverse perspectives and research backgrounds are highly encouraged to foster a comprehensive understanding of this crucial field.

Guest Editor

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