

Special Issue

Advances in Catalysis for a Sustainable and Green Future

Message from the Guest Editors

This Special Issue, titled “Advances in Catalysis for a Sustainable and Green Future”, aims to present recent progress in the design, synthesis, characterization, and application of advanced catalytic materials. Particular attention will be given to structure–property relationships, active-site engineering, reaction mechanisms, catalyst stability and recyclability, and scalable preparation methods. Contributions may address heterogeneous catalytic, photocatalytic, electrocatalytic, and immobilized biocatalytic materials for applications such as CO₂ capture and conversion, hydrogen production, biomass and waste valorization, green chemical synthesis, pollutant degradation, and energy storage and conversion.

This Special Issue seeks to bring together researchers from chemistry, materials science, chemical engineering, energy, and environmental science to highlight how innovative catalytic materials can contribute to resource efficiency, circularity, decarbonization, and sustainable development.

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