

Special Issue

Synthesis and Catalytic Applications of Nanomaterials

Message from the Guest Editors

This Special Issue aims to highlight recent advancements in the synthesis, characterization, and catalytic applications of nanomaterials, a cornerstone of modern catalysis. Nanomaterials, with their tunable size, morphology, and surface properties, have emerged as transformative agents in diverse catalytic processes, enabling unprecedented efficiency and selectivity in both laboratory and industrial settings. This collection will focus on innovative synthetic strategies for designing active, stable, and multifunctional nanocatalysts and their applications in many fields, including energy conversion, environmental sensing and remediation, and organic synthesis. We welcome original research articles, reviews, and perspective pieces on topics including but not limited to: Novel synthetic routes for nanostructured catalysts.

Mechanistic insights into nanocatalyst reactivity and deactivation. Case studies on industrial-scale catalytic processes enabled by nanotechnology.

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