

Special Issue

Functional Nanomaterials in Catalysis and Sensing

Message from the Guest Editors

This issue aims to showcase the latest advancements in the field of nanomaterials applied to catalysis and sensing applications. They have revolutionized the field of catalysis, offering unprecedented opportunities for enhancing reaction efficiency, selectivity, and stability. Their unique properties make them highly promising candidates for sensing applications across diverse domains, from environmental to biomedical diagnostics. We invite researchers in the field to contribute their work to this special issue. Topics of interest include but are not limited to: Synthesis and characterization of functional nanomaterials for catalytic applications; Design and optimization of catalysts for efficient energy conversion and chemical transformations; Design and characterization of nanoclusters/nanostructures for energy storage and conversion; Development of nanomaterial-based sensors for detecting gases, biomolecules, pollutants, and analytes; Integration of nanomaterials into sensing platforms for real-time monitoring and diagnostics. Join us in advancing the understanding of nanomaterials in catalysis and sensing to enrich this dynamic and interdisciplinary field.

Guest Editors

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Deadline for manuscript submissions

closed (30 May 2025)



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