

Special Issue

Nano/Micro-Catalysts for Environmental Remediation and Energy Production

Message from the Guest Editor

Nanostructured catalysts improve the selectivity of the reactions by allowing reactions to occur at lower temperatures, reducing the occurrence of side reactions, and offering the possibility of material recovery. Therefore, these are widely used in green chemistry, environmental remediation, efficient biomass conversion, renewable energy development, water desalination, and air treatment, among other areas of interest. This Special Issue has been organized to showcase high-quality research articles, including experimental and theoretical studies, towards developing catalysts for environmental remediation and sustainability. We welcome research on quantum dots (QDs), 2D materials, catalytic thin films, single-atom catalysis, photo-electrocatalysis, piezocatalysis, and their combinations for environmental remediation (water and air treatment). Original research papers, and reviews sharing and discussing the latest developments, conclusions reached so far, and future trends in this field are welcome. We also highly encourage critical reviews and additive manufacturing-based research to enhance the catalytic reactions.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2024)



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About the Journal

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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