

Special Issue

Novel Materials in Advanced Oxidation/Reduction Processes: A Holistic Approach to Environmental Remediation

Message from the Guest Editors

Nanomaterials are emerging as powerful catalysts for a wide array of environmental remediation applications. Interdisciplinary collaboration is essential to establish and disseminate robust standards for assessing and mitigating the potential risks associated with nanomaterials. Researchers actively engaged in the design and application of nanocatalysts are cordially invited to submit their manuscripts for consideration in this Special Issue of *Nanomaterials*. This Special Issue will encompass a wide range of topics, including the synthesis and optimization of nanomaterials, the development of advanced analytical methods for contaminant detection, life cycle studies, and their diverse applications in clean energy conversion and storage, water remediation, and environmental protection. We look forward to receiving your contributions. See more information in <https://www.mdpi.com/si/228803>

Guest Editors

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Deadline for manuscript submissions

closed (10 February 2026)



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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Editor-in-Chief

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