Special Issue

Nanoelectrocatalysts for Energy and Environmental Applications

Message from the Guest Editors

The search for catalysts with outstanding performance in different electrochemical processes related to energy production, storage and other environmental applications has achieved an answer in the tunning of different structures with novel crystalline and morphological properties, which play a key role in the activity of these materials. The aim of this Special Issue is to present innovative results concerning the design and characterisation of nanostructured materials and their potential applications in different energy production and environmental applications, including proton exchange membrane fuel cells, electrolysers, ground and water remediation, and CO2 electrochemical capture, among others, as well as supported and unsupported catalysts with different crystalline shapes, composites and materials grown from novel supports avoiding the use of binders. Therefore, we invite authors to present their novel research through original articles addressing the design and characterisation of catalytic materials with novel properties achieved from their nanostructures.

Guest Editors

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Deadline for manuscript submissions

closed (10 June 2025)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/189004

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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.

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