Special Issue

Low-Dimensional Nanomaterials for Advanced Electrocatalysis

Message from the Guest Editor

Electrocatalysis plays a key role in clean energy conversion, providing many sustainable green routes for future technologies via combining with renewable energy inputs. Low-dimensional nanomaterials toward advanced electrocatalytic application have stimulated interest due their unique chemical and electronic structures. The high structural tunability of low-dimensional nanomaterials offers new possibilities in electrocatalysis. Despite significant progress being made in recent decades, further in-depth study is still required to clarify how to develop high-performance electrocatalysts based on low-dimensional nanomaterials for different electrocatalytic reactions. This Special Issue called “Low-Dimensional Nanomaterials for Advanced Electrocatalysis” aims to report the latest innovative research and development in this field, covering a broad of topics, including, but not limited to, the design, synthesis, and characterization of low-dimensional nanomaterials toward various electrocatalytic reactions. Please see more details at the following link: mdpi.com/si/174002 We welcome contributions from all related groups.

Guest Editor

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Deadline for manuscript submissions

closed (15 January 2024)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/174002

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mdpi.com/journal/nanomaterials

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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.

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