

Special Issue

Processing, Surfaces and Interfaces of Nanomaterials

Message from the Guest Editors

Surfaces and interfaces are fundamental to many important properties designated to specific material applications, ranging from corrosion- and wear-resistance of structural materials to the biocompatibility of biomedical materials. The application of nanomaterials further expands the measures that can be taken for the optimizations of surfaces and interfaces towards improved performance. The potential is demonstrated of functional materials in important applications such as energy-storage and catalysis. Novel nanomaterials or nano-structures have been introduced to achieve dedicated performance in extreme conditions. Processing plays an important role for the regulation of final properties. Apart from the use of nanomaterials as the “feedstocks” of processing, nano-structures with special functionalities can also be formed *in-situ* under finely tuned processing parameters. Understanding the processing-performance relationship with respect to surfaces and interfaces is expected to further promote the development of this field. This Special Issue invites submissions that surfaces and interfaces involving nanomaterials and nanostructures.

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Deadline for manuscript submissions

closed (10 April 2023)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/128199

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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