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Processing, Surfaces and Interfaces of Nanomaterials

Guest Editors:

Prof. Dr. Cheng Hu
School of Materials Science and Engineering, Shandong University, Jinan, China

Prof. Dr. Chuanzhong Chen
School of Materials Science and Engineering, Shandong University, Jinan, China

Deadline for manuscript submissions:
closed (10 April 2023)

Message from the Guest Editors

Dear Colleagues,

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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Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

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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Contact Us

Nanomaterials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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