Special Issue

Bioinspired and Nanostructured Surfaces for Wetting Applications

Message from the Guest Editors

Understanding and controlling the wetting behavior between fluids and solid surface impacts many areas of science and technology. Biomimetic research indicates that many phenomena regarding wettability in nature are all related to the unique micro- and nanostructures on the surfaces. The designed surfaces with special wettability exhibit great advantages in a wide variety of applications in health care, water treatment, agriculture, etc. This Special Issue aims to collect high-quality research outcomes on the recent advances in bioinspired surfaces with special wettability, including new concepts, analyses, fabrication methods, application studies, etc. Research areas may include (but are not limited to) the following:

- The finding of new bioinspired surfaces with special wettability;
- Novel fabrication processes of bioinspired surfaces with special wettability, especially for surfaces with large-area and high-stability;
- Theoretical analyses of the wettability behavior on solid surfaces;
- Application of the surfaces with special wettability.

Guest Editors

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Deadline for manuscript submissions

closed (20 June 2024)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/142623

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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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