Special Issue

Wetting of Nanostructured Materials

Message from the Guest Editor

Controlling the wetting properties of solid surfaces is important in many aspects of engineering solutions for healthcare, water harvesting, energy conversion, and industrial painting, just to mention some key applications. As scientists, we can contribute by providing a deeper understanding of the wetting phenomena and demonstrate the solutions. For inspiration, we can look at the solutions already developed by nature through millions of years of evolution. Many of those biomimetic designs comprise surface textures on the nano-scale. How do we engineer solid surfaces by nanostructures and surface chemistry to enable properties such as self-cleaning, omni-phobicity, anti-icing, anti-fogging, drag reduction, anti-fouling, and lubrication to address the societal needs, and why does it work? We would very much like to consider your proposed answer in the form of a scientific paper to these questions in this Special Issue of Nanomaterials.

Guest Editor

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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.

Editor-in-Chief

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