

Special Issue

Surface and Interface Science for Nanomaterials

Message from the Guest Editor

The study of surfaces and interfaces is critical for determining the electrochemical reaction of nanomaterials and modifying their properties, for which there are many strategies. The modification and cladding of the surface and interface can be employed to prevent unwanted agglomeration of nanomaterials, exploit their size and interfacial effects, and impart special functions and properties on them. The study of the surface and interface modulation of nanomaterials aims to develop ways to effectively optimise the properties of nanomaterials and influence the thermodynamic processes and stability of these materials, thus having a decisive impact on the microenvironment of nanomaterial applications. Therefore, this field has become an important research area in nanoscience. This Special Issue will introduce surface and interface science applications in the field of nanomaterials, with a special focus on, but not limited to, the study of material surfaces and interfaces to optimise energy device performance, prevent corrosion, and protect materials.

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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