Special Issue

The Interactions of Nanomaterials with Bio-Interfaces: Mechanisms and Applications

Message from the Guest Editors

In recent years, new technological applications in the biological area on the micro- and nano-scale, resulting in the unveiling of an unprecedented level of details on macromolecules and cells, pushing forward the frontiers of traditional approaches. The combination between biotechnologies, nanotechnologies, chemistry, and physics opened new strategies and methodologies. In this issue, we promote the submission of contributions highlighting applications, methodologies, and technical advances developed in recent years, but we also ask authors to put in evidence, in the light of their experience, open/unsolved problems, and future challenges to promote a leap-forward the field. This Special Issue will include original research, communications and review articles covering the latest advances in the development and application of strategies devoted cell-growth, signalling and differentiation, as well as nano-scale study of biomolecules down to the single analyte.

Guest Editors

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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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