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New Challenges in Designed Nanointerfaces

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Message from the Guest Editor

Considering the importance of the characteristics of materials, processing techniques and modulating interface characteristics for specific targeted functions, this Special Issue will provide an overview of nanointerface design, with a focus on fabrication, the assembly of nanomaterials and nanostructures, processing, properties, characterization and integration to obtain multifunctional systems in potential applications, ranging from biosensors, to catalysis and medicine.

Topics of interest include, but are not limited to, the following: (1) Design methods for synthesizing, processing and characterizing biointerfaces and biomaterials; (2) The interaction of cells to form nano–microstructured material interfaces (from coatings to nanofibers, etc.); (3) Design methods for synthesizing, processing and characterizing nanomaterials; (4) Nanoscale mechanisms for the assembly of materials and biomaterials; (5) Active nanointerfaces for various applications: biomedical applications, energy-transforming technologies, electrochemical biosensors and diagnostic platforms in bio-electrochemistry.

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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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