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Nanoscale Surface Engineering

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Message from the Guest Editors

Nanoscale surface engineering refers to the design of physical, morphological and interfacial properties of nanoparticles or 2D nanostructured surfaces for a particular application. The surface chemistry of nanomaterials impacts an assortment of specific physical properties, such as magnetism, optics, electronics, catalysis and toxicity. Ligands and other surface molecules often play a major role in nanoparticle growth, form and crystallinity, in addition to bringing new features such as (bio)chemical functional moieties, new interactions with the surrounding medium and adjusting the hydrophilic/lipophilic balance. This special issue will include, but not be limited to, any kind of nanoscale surface modification strategies addressing critical issues in fields related to nanotechnologies such as biomaterials, nanomedicine, plasmonics, metamaterials, energy harvesting, nanoelectronics, spintronics, and smart materials, among others. Through this plethora of topics, this issue will illustrate the fundamental nature of surface chemistry to material functionality, tunability and longevity.



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Special Issue



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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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