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Chemical and Photoinduced Surface Modifications of Inorganic Nanoparticles and Their Applications

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Message from the Guest Editor

Dear Colleagues,

The surface modification of inorganic nanoparticles is a motivating approach to tailor their bio-physicochemical and functional features. Many modification strategies (i.e., chemical and photochemical) are attracting a great deal of attention with the aim of realizing multifunctional nanomaterials with tunable size, morphology and surface composition, by coating with inorganic, organic or bioderived moieties.

This Special Issue will address topics concerning the chemical and photoinduced strategies capable of functionalizing the surface of inorganic nanoparticles, thus addressing their functionality for technological applications in various fields, such as nanomedicine, food packaging, optics and optoelectronic devices, semiconductor devices, textiles, cosmetics, agriculture, energy and catalysis.

Dr. Giuseppe Vitiello
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.

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