



Preparation and Application of Hybrid Nanomaterials

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Message from the Guest Editors

Hybrid materials and their nanostructured composites are emerging as some of the most advanced next generation systems for applications in numerous research fields, such as optics, electronics, mechanics, medicine, energy and environment. By combining unique properties of the individual constituents, hybrid nanostructures consisting of two or more components with distinct functionality, may exhibit tailored performance for the specific application. For this Special Issue, we are especially interested in manuscripts that report the synthesis, characterization and possible applications of different kinds of hybrid nanomaterials, including oxide, polymer, ceramics, and metal-based systems. This Special Issue invites both experimental and computational-based manuscripts. Special emphasis is laid on the tailoring of the interfacial features of the composite for the final application. Application can include the following topics: energy storage and conversion; electronics and optoelectronics; catalysis; multi-phobic/self-cleaning devices; functional coatings; lithography and patterning; drug delivery and diagnostics; biomaterials; sensors and actuators.





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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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