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Nano-Hybrids: Synthesis, Characterization and Applications

Guest Editor:

Message from the Guest Editor

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Nanotechnology and nanomaterials are common words these days, and they have an astonishing impact on our daily lives. Rapid technological development and miniaturization require simultaneous advances in materials science in order to meet the growing performance demands. Nanohybrids have been attracting much attention for the creation of a new generation of high-performance materials due to their extraordinarily high synergetic and complementary behavior between two or more component materials on the nanolevel. This Special Issue is focused on the synthesis, characterization, and application of nanohybrid materials, including nanoparticles and ultrathin films. Consequently, this Special Issue will collect original reviews and novel research papers that cover the current state-of-the-art as well as recent advances in the field materials composed of organic and/or inorganic materials at the nanolevel.



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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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