Special Issue

Hybrid Nanomaterials: Applications in Energy, Environment and Biomedicine

Message from the Guest Editors

In the past few decades, the field of nanotechnology has grown extensively, and nanomaterial-based products are gaining traction. Nanomaterials have wide-ranging and diverse properties and applications, most of which are associated with size, shape, functionality, structure, etc. Nowadays, most research in this area is focused on synthesizing hybrid nanomaterials to enhance the efficiency of the parent nanomaterials. Therefore, hybrid nanomaterials properties such as size, shape, composition, structure and charge, etc., have been investigated and used in air, water, and soil purification, energy-related inventions, diagnostic, drug delivery, and other biomedical applications. The present Special Issue will focus on advancements in the application of hybrid nanomaterials in energy, environmental, and biomedical applications. We invite researchers from academia and industry to contribute original research articles and review articles covering novel approaches in the development of nanohybrids and their applications in the environment, energy, and biomedical fields.

- hybrid nanomaterials
- air, water, soil remediation
- biomedical applications
- energy applications

Guest Editors

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Deadline for manuscript submissions

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Editor-in-Chief

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