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Hybrid Nanofibers: Fabrication, Properties and Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editor

Entering a new era of miniaturized devices has required innovative structured multifunctional hybrid nanomaterials. In particular, hybrid nanofibers have received significant attention from both academia and industry due to their unique collective physical properties. Hybrid nanofibers are novel types of structured functional nanomaterials that possess a large surface area with well-defined compositions of controlled size and morphologies. These materials exhibit unique optical, electronic, magnetic and optoelectronic properties essential for a tremendous numbers of applications in the fields of optics, catalysis, energy, environment, nanomedicine, and biotechnology.

The proposed Special Issue is inviting original articles in form of communications, full papers, and reviews demonstrating the progress in the research fields of unidirectional structured hybrid nanomaterials and the prospective development of advanced hybrid nanofibers for a wide range of applications.

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Editor-in-Chief

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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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