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Biohybrid Nanofibers and Nanomaterial-Contained Fibers: Fabrication and Application

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Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Biohybrid fibers have aroused intensive attention in the fields of bioremediation, drug delivery carriers, bio-sensing, bio-catalysis, biosafety protection, wearable devices, and others in the past few decades. This Special Issue aims to present recent advancements in the synthesis and fabrication technique developments of biohybrid nanofibers and nanomaterial-contained fibers, and their applications in biomedical research and practice, and other related fields. Original submissions as research articles, perspectives, or review articles are all welcome. Potential topics include, but are not limited to:

- Design, fabrication, and characterization of biohybrid nanofibers;
- Novel nanomaterial synthesis and their applications in nanomaterial-contained fibers;
- Functional modification of biohybrid nanofibers;
- Biohybrid nanofibers for drug delivery and pharmacological mechanisms;
- Biohybrid nanofibers for bio-sensing and bio-catalysis;
- Biohybrid nanofibers for biosafety protection, anti-bacterial, and anti-virus;
- Biohybrid nanofibers for tissue engineering and regenerative medicine.

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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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