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Potential of Electrospun Nanofibrous Devices: Design and Validation under a Multiapplication Perspective

Guest Editor:

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Message from the Guest Editor

The present Special Issue of *Nanomaterials* is aimed at presenting the current state of the art in the preparation of electrospun nanofibrous devices, which represents remarkable progress made in recent years in the technology of membranes or scaffolds, with many different types of electrospun devices exhibiting radically enhanced properties for a wide range of industrial applications, such as biomedicine, environmental remediation, fuel cells, and food packaging, among others. Contributions from leading groups in the field are invited for this Special Issue, with the aim of giving a balanced view of the current state of the art in this discipline. It is focused on the design, preparation, and validation of novel electrospun devices to respond to the outcome-oriented requirements of the intended application. It also covers proposals of innovative electrospinning-based procedures and original methodological approaches for the improvement of aspects such as the security, compatibility, sustainability, degradation, and stability of the electrospun devices.

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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.

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