



Biopolymer-Based Nanocomposites

Guest Editor:

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Message from the Guest Editor

The present Special Issue of *Nanomaterials* will present the current state-of-the-art in the use of biopolymer-based nanocomposites, which represent a remarkable progress in recent years, with many different types of nanocomposites exhibiting radically enhanced properties for a wide range of industrial applications. Contributions from leading groups in the field with the aim of giving a balanced view of the current state-of-the-art in this discipline are invited. It is focused on the design, preparation, and validation of the novel materials, for which the polymer matrix comes from renewable resources, and the role of the nanoscaled filler provides the biocomposite with outstanding properties in the field of application. It covers the proposal of new materials, innovative processing procedures, and original methodological approaches for the improvement of aspects such as security, compatibility, sustainability, degradation, and stability. This Special Issue will collect recent findings and comprehensive reviews from experts in this very active field of research, in order to serve as a useful source of information for researchers and technologists.





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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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