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Bio-Based Composite Hydrogels for Biomedical Applications

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Message from the Guest Editors

Hydrogels are created by a water-swollen polymer three-dimensional network. In the last decade, they have been extensively investigated, especially for biomedical applications, such as the controlled delivery of biologically active agents and tissue engineering. Bio-based polymer hydrogels, obtained from renewable natural resources, are subject to growing interest for their use as biomaterials, with consideration of the latest requirements for a reduction in the environmental impact and for the development of a sustainable society. Furthermore, bio-based polymers are biodegradable materials and show a significant degree of biocompatibility and biomimicry, the most required properties concerning in vivo applications.

This Special Issue will focus on the design and manufacturing of bio-based composite hydrogels; their physical, chemical, and biological characterization; and their applications in medicine and pharmacy. Theoretical and experimental contributions as full-length original research articles, review manuscripts, and short communications are kindly welcome.



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Special Issue



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Message from the Editor-in-Chief

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