

Special Issue

Bio-Based Composite Hydrogels for Biomedical Applications

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.

Guest Editors

Dr. Adina Magdalena Musuc

Department of Chemical Kinetics, "Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, 060021 Bucharest, Romania

Dr. Mariana Chelu

Chemical Kinetics Department, Ilie Murgulescu Institute of Physical Chemistry, Romanian Academy, 060021 Bucharest, Romania

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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