



Bio-Based Composite Hydrogels for Biomedical Applications

Guest Editors:

Dr. Adina Musuc

“Ilie Murgulescu” Institute of
Physical Chemistry, Romanian
Academy, 202 Splaiul
Independentei St., 060021
Bucharest, Romania

Dr. Mariana Chelu

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

Deadline for manuscript
submissions:

closed (18 July 2024)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

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

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)