Special Issue

Hydrogel for Sustained Delivery of Therapeutic Agents

Message from the Guest Editors

Polymer hydrogels are attractive materials utilized for the controlled release of drugs and therapeutic agents due to their ability to embed biologically active agents in 3D water-swollen networks. The latest advancements in natural biomaterials, polymer chemistry and the bioengineering domain have facilitated numerous developments in the field of hydrogels for the sustained delivery of therapeutic agents. In light of this, the current Special Issue is focused on the state of the art in the field of hydrogels, focusing on several exciting subjects, including cross-linking methods, stimuli-responsive hydrogels, multicomponent hydrogels, aerogels, and the release of therapeutic agents from 3D-printed hydrogels. Therefore, the challenges that have been overcome due to advanced development in the fields of biodegradable, biocompatible and temperature- and pH-stimuli-responsive hydrogels and interactions between hydrogels and therapeutic agents will be also highlighted. In this Special Issue, theoretical and experimental contributions in the forms of literature reviews, full-length original research articles and short communications are welcome.

Guest Editors

Dr. Adina Magdalena Musuc
Dr. Magdalena Mititelu
Dr. Mariana Chelu

Deadline for manuscript submissions

closed (30 September 2023)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/164946

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

mdpi.com/journal/gels

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About the Journal

Message from the Editorial Board

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

Editors-in-Chief

Prof. Dr. Esmaiel Jabbari
Biomimetic Materials and Tissue Engineering Laboratory, Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

Prof. Dr. Chuanliang Feng
State Key Lab of Metal Matrix Composites, School of Materials Science and Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

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