



Polymer Hydrogels: Design, Synthesis and Applications

Guest Editors:

Dr. Jing Chen

Ningbo Institute of Industrial
Technology, Chinese Academy of
Sciences, Ningbo, China

Dr. An Liu

Department of Orthopedics, The
Second Affiliated Hospital,
School of Medicine, Zhejiang
University, Hangzhou, China

Deadline for manuscript
submissions:

closed (30 December 2021)

Message from the Guest Editors

Dear Colleagues,

Hydrogel is a network of polymer chains with a great amount of water, exhibiting a structure that is the most similar to the extracellular matrix. This particular soft and wet characteristic endows hydrogel materials with a number of properties, including permeability to oxygen and nutrients, support for cell proliferation, making these materials attractive for use in biological applications. This Special Issue aims to report the current progress on the hydrogel materials in the biomedical applications, stressing the novel network structural design and synthesis route, as well as remarkable performances. We invite original research articles and reviews, as well as commentaries covering these topics. I look forward to your contribution.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Author Benefits

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

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/X@Molecules_MDPI)