



Engineered Gels for Environmental Applications

Guest Editors:

Dr. Luísa Durães

Dr. Artur Valente

Dr. Ioannis Anastopoulos

Dr. Nicolas Brun

Deadline for manuscript
submissions:

closed (30 June 2021)

Message from the Guest Editors

Dear Colleagues,

Gels may be used in wet state, as in the case of hydrogels, or be dried by several strategies to remove the swelling agents, still retaining their porous structure. Supercritical drying or freeze-thawing are the most prominent examples of methods that allow the drying of gels, often maintaining intact the pore size distribution of the solid network. Very singular mesoporous materials, such as aerogels and cryogels, can be prepared by these methods. Nonetheless, the use of green routes and sustainable precursors for the synthesis of these materials cannot be disregarded, nor can the possibility to reuse them several times or to reintroduce them in their own synthesis.

Considering all the above, this Special Issue targets the latest trends and advances on engineered gels for environmental applications, including energy storage and/or conversion, clean energy production, thermal and acoustic insulation, water and soil remediation, agriculture, soil erosion, and recycling of materials and/or wastes. Emphasis will be given to the utilization of new gel formulations fabricated with an eco-friendly (green) way.





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 molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of 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 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)