



Hydrogelated Matrices: Structural, Functional and Applicative Aspects

Guest Editors:

Dr. Enrico Gallo

IRCCS Synlab SDN, Via E.
Gianturco 113, 80143 Naples,
Italy

Dr. Carlo Diaferia

1. Department of Pharmacy, Via
Domenico Montesano 49, 80131
Naples, Italy
2. Research Centre on Bioactive
Peptides (CIRPeB), University of
Naples "Federico II", 80134
Naples, Italy

Deadline for manuscript
submissions:

11 June 2025

Message from the Guest Editors

Dear Colleagues,

Generated by multi-scale organization, hydro-, aero- and organogelated matrices are soft materials that are useful for horizon applications. Formed by both polymers or self-assembling molecules via non-covalent interactions or through supramolecular chemistry pathways, these materials were identified as useful tools for exploring different areas of application, including sustained API (active pharmaceutical ingredient) delivery, tissue engineering, optoelectronics, sensors and surface modification. This Special Issue aims to enhance the knowledge about the structural, organizational and applicative features of the gels' state of matter. Full research articles, reviews, letters and mini reviews that cover these topics or similar topics are welcome.

We look forward to receiving your contributions.

Dr. Enrico Gallo
Dr. Carlo Diaferia
Guest Editors





gels



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Esmail Jabbari

Biomimetic Materials and Tissue
Engineering Laboratory,
Department of Chemical
Engineering, University of South
Carolina, Columbia, SC 29208,
USA

Message from the Editor-in-Chief

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.

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](#), [PMC](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q1 (*Polymer Science*)

Contact Us

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

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

mdpi.com/journal/gels
gels@mdpi.com
[X@Gels_MDPI](#)