Special Issue

Gel Materials for Heritage Conservation

Message from the Guest Editors

The conservation and preservation of cultural heritage is of the utmost importance to safeguarding humanity's rich history and promoting cultural continuity. Gel materials have emerged as valuable tools in heritage conservation owing to their unique properties, facilitating controlled cleaning, consolidation, and the protection of various types of historic artifacts. Hydrogels, for instance, exhibit excellent solvent retention abilities and are effective in cleaning fragile surfaces. Organogels, on the other hand, provide enhanced penetration abilities, making them suitable for consolidating porous materials. Furthermore, the selection of appropriate gel materials depends on factors such as the type of artifact, desired cleaning mechanism, and compatibility with the substrate. Gel materials have revolutionized the field of heritage conservation, offering efficient and safe methods of preserving and restoring cultural artifacts. We expect that key actors in the field will contribute to this discussion according to their areas of expertise, covering different types of gels such as hydrogels, organogels, emulgels, aerogels and gel-like materials.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2025)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/191542

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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.

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