

## Special Issue

# Advances in Functional Gel (2nd Edition)

### Message from the Guest Editors

Recent research studies in materials chemistry are moving towards the development of innovative and smart (multi)functional gel-based materials, featuring a wide range of interesting properties for applications in biomedical, sensing, textiles, catalysis, building, cultural heritage, blue-growth, automotive and environmental industrial sectors. Additionally, nanotechnology has been shown to be a determinant in the rational design of these novel functional nanostructured gel formulations, leading to advanced nano-hybrid or nanocomposite gels, also useful as coatings for surface properties' implementation. Furthermore, green and eco-friendly gel-based synthetic protocols can be established in combination with natural-derived polymers and bio-based or secondary raw materials, thus resulting in new eco-friendly products, able to be recycled and re-used.

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### Guest Editors

Dr. Maria Rosaria Plutino  
Dr. Silvia Sfameni  
Dr. Giulia Rando

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### Deadline for manuscript submissions

closed (10 July 2025)



## 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.

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### Editors-in-Chief

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