

## Special Issue

# Multifunctional Magnetic Hydrogel Composites

### Message from the Guest Editor

The Special Issue, titled “Multifunctional Magnetic Hydrogel Composites,” focuses on the development and application of multifunctional magnetic hydrogels. These innovative materials combine the unique properties of hydrogels, such as high biocompatibility, tunable mechanical strength, and exceptional water retention capacity, with the magnetic characteristics of embedded nanoparticles. This Issue explores recent advancements in sophisticated synthesis, multi-scale characterization, and diverse applications of these composites, covering fields such as tissue engineering for regenerative medicine, precisely controlled drug delivery systems, highly sensitive (bio)sensors, and next-generation soft robotic biomedical devices. The overarching aim is to highlight the significant potential of these smart, responsive materials in addressing complex technological and medical challenges, thereby fostering a vital interdisciplinarity between chemistry, physics, materials science, biology, and engineering. For this Issue, we invite researchers to share groundbreaking findings that drive progress in this dynamically emerging field.

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### Guest Editor

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### Deadline for manuscript submissions

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## 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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