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## Composite Hydrogels for Biomedical Applications

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submissions:

**closed (25 September 2025)**

### Message from the Guest Editors

Dear Colleagues,

Composite hydrogels offer the necessary conditions for potential biomedical applications, including drug administration via various routes (oral, dermal, parenteral, ocular, etc.) or other medical disorders (wound healing, chemotherapeutics, tissue engineering, etc.). Nevertheless, we lack thorough understandings of the mechanisms, interactions, and applicability of such composite hydrogel-based drug delivery systems.

Therefore, this Special Issue aims at collecting the most recent scientific progress in the development of composite hydrogels. Original research articles, comprehensive reviews, short communications, and perspectives, with topics addressing—but not limited to—the key findings and contributions on composite hydrogels, including preparation methods, characterization (in vitro and in vivo), and biomedical applications, are welcomed.

Dr. Marta Slavkova  
Dr. Marieta Constantin  
Guest Editors



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**Special** Issue



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## 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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