Special Issue

Designing Hydrogels and Hydrogel-Derived Materials for Agriculture and Water Sustainability

Message from the Guest Editors

The design and applications of hydrogels in different fields of application have increased considerably over the years. Currently, the design of hydrogels and hydrogel-derived materials has become a focus of studies to counteract the current sustainability needs of agriculture and water as part of the global economy and as necessary resources on our planet. In this Special Issue, entitled “Design of Hydrogels and Hydrogel-Derived Materials for Agriculture and Water Sustainability,” we seek contributions in the field of advancing the design of hydrogel-derived materials for agriculture and water sustainability, such as hydrogels for the elimination of emerging organic contaminants and contaminants of inorganic origin. In addition, we seek contributions to the controlled release of agrochemicals, water, hormones, pesticides, etc. Likewise, manuscripts are accepted in the fields of nanocomposite hydrogels, hybrid hydrogels, biobased hydrogels, and other types of hydrogels for agriculture and water sustainability. For this Special Issue, original research articles and reviews are welcome. We look forward to receiving your contributions.

Guest Editors

Dr. Daniel A. Palacio
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Dr. Gustavo Cabrera Barjas

Deadline for manuscript submissions

closed (30 June 2025)

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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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