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Properties of Hydrogels, Aerogels, and Cryogels Composites

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Message from the Guest Editors

Dear Colleagues,

This Special Issue on "Properties of Hydrogels, Aerogels, and Cryogels Composites" is dedicated to the latest advances in the preparation, properties, and applications of gel-type materials, highlighting key concepts relevant to the unique properties of hydrogels, aerogels, and cryogels.

Hydrogels have the ability to absorb impressive amounts of water or biological fluids within their peculiar structure of physically or chemically cross-linked 3D polymer networks. Hydrogels can be converted to aerogels following water removal via different approaches. Their distinctive features, such as super-absorbency, fluffiness, biocompatibility, viscoelasticity, and softness, underpin various applications, especially in the biomedical field.

This Special Issue will cover new discoveries in the production of hydrogels, aerogels, and cryogels with a broad variety of morphologies and properties, which can be tailored for a particular application.

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Message from the Editor-in-Chief

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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