Special Issue

Rheological Properties and Applications of Gel-Based Materials

Message from the Guest Editors

Gels, composed of crosslinked polymer networks, are integral to fields such as medicine, cosmetics, and the food industry. The physical or chemical crosslinking of the gel system determines the mechanical features and stability and dictates the specific applications of gelbased materials. The mechanism of crosslinking and the interactions among polymers, solvents, and additives in the system play a crucial role in this context. Rheological analysis quantitatively assesses these interactions. revealing how variations in polymer gel composition impact overall performance. This Special Issue of Gels. titled "Rheological Properties and Applications of Gel-Based Materials", delves into the creation of gels through diverse interactions within polymer networks. Papers should provide a deep analysis of the rheological properties of gel-based materials and explore extensive applications aligned with the characteristics, thereby offering valuable insights for optimizing and applying gel-based materials across various industries.

Guest Editors

Dr. Jungbin Ahn

Department of Electrical and Computer Engineering, Texas A&M University, College Station, TX 77843, USA

Prof. Dr. Rama Bansil

Materials Science and Engineering Division, Boston University, Boston, MA 02215, USA

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Gels
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
gels@mdpi.com

mdpi.com/journal/ gels





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About the Journal

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.

Editor-in-Chief

Prof. Dr. Esmaiel Jabbari

Biomimetic Materials and Tissue Engineering Laboratory, Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

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