Special Issue

Gel Biomaterials for Cancer Therapy and Biomedical Applications

Message from the Guest Editors

Dear colleagues, Gel-based biomaterials represent a versatile and transformative class of materials for advancing cancer therapy and other biomedical applications. This Special Issue focuses on the design, synthesis, and application of gel biomaterials tailored for cancer therapy and broader biomedical innovations. We invite contributions that explore novel gel formulations, material–cell interactions, and translational approaches for enhancing therapeutic efficacy. Topics may include, but are not limited to, the following: • Hydrogels for controlled drug or cell delivery;
• Gel-based platforms for immunotherapy or tissue regeneration;
• Injectable gels for minimally invasive cancer treatments;
• Three-dimensional gel systems for in vitro modeling of distinct microenvironments;
• Smart gels responsive to biological or environmental cues.

Guest Editors

Dr. Natalie K. Livingston
Center for Engineering in Medicine & Surgery, Massachusetts General Hospital, Boston, MA 02114, USA
Dr. Kimberly M. Stroka
Fischell Department of Bioengineering, University of Maryland, College Park, MD 20742, 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

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.

Editors-in-Chief

Prof. Dr. Esmaiel Jabbari
Biomimetic Materials and Tissue Engineering Laboratory, Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

Prof. Dr. Chuanliang Feng
State Key Lab of Metal Matrix Composites, School of Materials Science and Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 13.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

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