Special Issue

Nanogels and Microgels: Research Advances, Future Trends, and Applications

Message from the Guest Editor

This Special Issue, titled “Nanogels and Microgels: Research Advances, Future Trends, and Applications”, focuses on improving their synthesis methods, such as photo-polymerization and microfluidic techniques, to enhance control over size, morphology, and functionality. Stimuli-responsive nanogels, which react to pH, temperature, or enzymes, show promise in targeted drug delivery and biosensing. Future trends emphasize multifunctional hybrid systems, combining nanogels with inorganic nanoparticles or biomolecules for theranostics and regenerative medicine. Advances in 3D printing and biofabrication may further integrate microgels into tissue engineering scaffolds. Challenges remain in scalability, long-term stability, and precise in vivo targeting. Researchers from diverse disciplines are encouraged to participate in this interdisciplinary project and strengthen knowledge exchange to foster a deeper understanding and inspire innovative and broad applications of gel-based materials.

Guest Editor

Dr. Xiaoyan Liu
School of Chemistry and Chemical Engineering, Shaanxi Normal University, Xi’an 710062, China

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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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