# **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**

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#### Deadline for manuscript submissions

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# 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**

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