

Special Issue

Gel-Based Sensing Materials for Food and Drug Safety Detection

Message from the Guest Editors

This Special Issue focuses on recent advances in gel-based sensing materials for food and drug safety detection. Gel systems, such as hydrogels, nanogels, and composite gels, offer unique advantages, including tunable structures, high biocompatibility, and easy integration with recognition and signal-reporting elements. These properties make them promising platforms for the sensitive and rapid detection of contaminants, toxins, pathogens, heavy metals, and drug residues in complex samples. We welcome contributions on the development of novel gel-based sensors, including optical, electrochemical, and stimulus-responsive systems, as well as their practical applications in real sample analysis. This Special Issue aims to highlight innovative material designs and sensing strategies that support reliable, portable, and efficient safety monitoring in the food and pharmaceutical fields.

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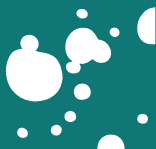


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About the Journal

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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