



gels



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Gels: Synthesis, Characterization and Applications in High Performance Chemistry

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Deadline for manuscript
submissions:
closed (30 November 2022)

Message from the Guest Editor

Dear Colleagues,

Organogels, hydrogels, and ionic gels are investigated both theoretically and experimentally. Detailed research is focused on both their synthesis and their applications in high-performance chemistry and its important branches. All the gels mentioned above are characterized from structural and supramolecular points of view by FTIR, NMR, X-ray diffraction, and POM.

Articles are expected to focus on one or more of the topics listed above. The central topic can be the refined analysis of hydrogels, with the minting of the coin on chitosan, for example.

The investigation of a hydrogel for wound-healing applications will be well received. The biodegradation of the hydrogel can be monitored in media mimicking the wound exudate by gravimetric measurements, SEM imaging, and fractal analysis of SEM pictures.

The images can be evaluated by calculating the fractal dimension and the lacunarity as a quantitative measure of the homogeneity of the material and its texture through their topological analysis.

For more information, please visit: mdpi.com/si/100809.



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Special Issue



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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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