Special Issue

Functional Hydrogels for Biomedical Applications

Message from the Guest Editors

This special issue on “Functional Hydrogels for Biomedical Applications” is dedicated to recent developments in the synthesis, design, tailoring, and fabrication of hydrogels for applications in biomedical fields. The inherent biocompatibility, stiffness, porosity, biodegradability, flexibility, and versatility of hydrogels closely mimics the tissue environment. These properties make hydrogels excellent material for biomedicine and tissue regeneration applications. Despite, their potential, the applications of hydrogels in biomedicines and biotechnologies are limited due to their poor mechanical properties, hard processability, low tunability, and lack of multifunctionality. Although various strategies has been explored to understand, tune and develop advanced hydrogels with superior mechanical properties and multifunctionalities. We hope that this special issue will stimulate new research to enhance hydrogels´ material properties, processability, and dynamic functionalities, to fully unlock the potential and translation of hydrogels in biomedical applications. For more information, please visit: mdpi.com/si/104234

Guest Editors

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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.

Editor-in-Chief

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