

Special Issue

Functional Hydrogels in Drug Delivery and Tissue Engineering Applications

Message from the Guest Editor

This Special Issue aims to highlight recent progress in the design, synthesis, and application of hydrogels, with particular emphasis on drug delivery and tissue engineering. We welcome contributions on responsive hydrogels, stimuli-triggered drug release, and injectable and in situ-forming materials, as well as 3D hydrogel scaffolds for cell encapsulation, culture, and differentiation.

Special attention will be given to self-healing hydrogels, which exhibit the ability to restore their structure under physiological conditions, offering unique advantages for dynamic biological environments. We also encourage submissions exploring advanced fabrication methods, including microfluidic techniques for the production of uniform microgels with tuneable properties.

Guest Editor

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Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials (JFB)* is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Pankaj Vadgama

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