

## Special Issue

# Multi-component Hydrogels for Biomedical Applications

### Message from the Guest Editors

Multi-component materials have gained interest in recent literature, as these are particularly attractive over single-component materials due to the fact that combinative functions can be generated from various components into one single material. Multi-component materials can achieve a range of various properties including novel morphologies, changes in mechanical properties and multi-functionality, resembling natural systems more accurately and overcoming the limitations of single-component systems.

This Special Issue will focus on the combination of various types of biomaterials including polymers, peptide-based hydrogels, nanoclays, stimuli-responsive materials, self-healing materials, shear-thinning materials, cross-linkable materials, “smart” materials and interpenetrating networks for various biomedical applications. Biomedical applications include, but are not limited to, multi-component biomaterials for tissue engineering and wound healing applications, 3D bioprinting, in vitro disease modeling, antimicrobial applications, wearable electronics, drug delivery and as immune-instructive materials or for immunomodulation.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 September 2024)



## Journal of Functional Biomaterials

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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.

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### Editor-in-Chief

Prof. Dr. Pankaj Vadgama

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