Special Issue

Functional Hydrogel Biomaterials: Current Status and Advances

Message from the Guest Editor

This special issue aims to provide a comprehensive overview of the current status and recent advances in functional hydrogel biomaterials for various Biomedical applications. This issue covers on but is not limited to:

- Design and synthesis of novel hydrogel materials and characterisation
- Applications in tissue engineering, drug delivery, wound healing and biosensing
- Stimuli responsive hydrogels
- Functional Biomaterials such as encapsulation of bioactive compounds and growth factors
- Understanding the structure-property relationships of hydrogel biomaterials and their interactions with biological systems.

Overall, this special issue offers a comprehensive overview of the latest developments and emerging trends in functional hydrogel biomaterials, showcasing their versatility and potential in addressing various biomedical challenges. It will be of great interest to researchers, scientists, and engineers working in the fields of biomaterials, tissue engineering, drug delivery, and regenerative medicine.

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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