Special Issue

Hydrogels for Biointerface Application

Message from the Guest Editors

Functional and smart hydrogels are widely used for biointerfaces, such as artificial skin, flexible and implantable bioelectronics, and tissue engineering. The essential attribute of the hydrogel is polymer networks with a high-water content that allows for the transport of biological and chemical molecules, thus providing an extracellular matrix-like (ECM-like) environment to facilitate the exchange of biological molecular and markers across interfaces. In this Special Issue, we intend to provide detailed and in-depth exploration and discussion in designing hydrogels for biointerface application. The interests of this topic include, but are not limited to, the novel components, strategies, high performance (e.g., toughness, stretchability, and biocompatibility), and features (e.g., self-healing, shape memory, and wet adhesion, conductive hydrogels) of the hydrogel, and the fundamental study of the hydrogels for biointerface. We hope that this Special Issue can bring new knowledge and ideas for all the related fields. Original research articles and concise and precise reviews are both accepted.

Guest Editors

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Deadline for manuscript submissions

closed (20 February 2024)

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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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