Special Issue

Advanced Materials and Devices for Medical Interventions

Message from the Guest Editors

Recent advancements in biomaterials and medical devices have transformed the landscape of healthcare, enabling more effective, personalized, and minimally invasive treatments. This Special Issue, “Advanced Materials and Devices for Medical Interventions”, aims to explore cutting-edge research in the development, fabrication, and application of novel materials and devices designed to enhance medical diagnostics, treatment, and patient care.

The focus of this Special Issue includes, but is not limited to, innovations in biomaterials, nanomaterials, biofabrication techniques, medical implants, and intelligent medical devices. Particular emphasis will be given to additive manufacturing, smart implants, bioresorbable materials, drug delivery systems, and AI-enabled medical technologies. Contributions showcasing novel functional materials, engineering approaches, and translational research towards clinical applications are highly encouraged.

This Special Issue aims to foster collaboration between researchers, engineers, and healthcare professionals to accelerate the development of transformative medical technologies.

Guest Editors

Dr. Jinke Chang

Dr. Hubin Zhao

Dr. Iwan Roberts

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Journal of Functional Biomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jfb@mdpi.com

mdpi.com/journal/jfb

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About the Journal

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
School of Engineering and Materials Science, Queen Mary University of London, London, UK

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