Special Issue

Functional Porous Materials for Biomedical Applications

Message from the Guest Editors

Porous materials, including, but not limited to, metal-organic frameworks (MOFs), covalent organic frameworks (COFs), porous polymers, and porous liquids, possess functional pore walls, well-defined porosity, and high specific surface areas. These features enable high loading capacity for therapeutic and imaging agents, tunable release profiles, and site-specific delivery.

This Special Issue invites high-quality original research articles, reviews, and communications on the design, synthesis, and characterization of porous materials for biomedical applications. Topics of interest include, but are not limited to:

- Drug loading and release mechanisms
- Imaging and theranostic applications
- Surface functionalization and targeting strategies
- Nanozyme activity and catalytic anti-inflammatory functions
- Biostability, biodegradation, safety, pharmacokinetics, and in vivo efficacy

Our goal is to translate the fundamentals of porous-material design into biomedical impact, elucidating how pore architecture and surface chemistry influence therapeutic efficacy.

Guest Editors

Dr. Xueying Ge

Dr. Yongbin Liu

Dr. Jiemin Wang

Deadline for manuscript submissions

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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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