



## Design, Synthesis and Medical Application of Porous Biomaterials

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### Message from the Guest Editors

With the development of synthetic methods and fabrication techniques, porous biomaterials are not limited to natural products. Instead, the scope is further broadened from micro nanoparticles, such as mesoporous silicon nanospheres and metal–organic frameworks, to macro tissue scaffolds, including aerogels, hydrogels and textiles. Additionally, due to the progress in manufacturing technology, now, the precise control of pore geometry (size, shape, distribution and porosity) and their unique physical and chemical properties is becoming possible.

Hence, in this Special Issue, research papers and review articles focusing on the design of advanced porous biomaterials and related cutting-edge manufacturing methods will be prioritized. Authors are encouraged to employ various methods such as wet-chemistry, templating, electro-spinning and 3D/4D printing, etc., to rationally fabricate porous architectures for biomaterials or biomedical applications. In addition, we will also accept articles that address the concept of biomimetic porous materials with particular biological functions and performances.





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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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