



Biomaterials for Diagnostic, Therapeutic, and Theranostic Applications

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Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editors

Dear Colleagues,

Theranostic formulations, integrating both diagnostic and therapeutic functions into a single platform, hold great potential for precision medicines. With the rapid development of emerging techniques of materials chemistry, biomaterials-based nanoplatfoms have been strategically integrated with imaging contrast agents and therapeutic agents for various molecular imaging modalities including fluorescence imaging, magnetic resonance imaging, ultrasound imaging, or multimodal imaging, as well as for various therapeutic approaches including chemotherapy, gene therapy, hyperthermia therapy, photodynamic therapy, radiation therapy, or combination therapy, even imaging-guided therapy.

The most encouraging aspect of these new developments is that theranostics is evolving to incorporate aspects of both molecular imaging as well as personalized therapy.

The aim of this Special Issue is to develop more advanced biomaterials-based theranostics agents for anticancer, antibacterial, brain disease, and other relative biomedical applications. The scope is not restricted to biomaterials for theranostics; contributions on similar topics are also welcome.





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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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