

Special Issue

Novel Nanoparticles for Biomedical Application

Message from the Guest Editors

Due to the unique properties and size of nanoparticles, which are similar to those of biomolecules, the application potential of nanoparticles is huge in this field. Firstly, there are plenty of different novel synthesis procedures to prepare nanoparticles of various property profiles. Secondly, since analytical methods are becoming more and more sophisticated, we are learning how an intelligent combination of nanoparticle properties can interact with a physiological environment in a positive manner. This results in improvements in diagnostics as well as in therapy.

Biomedical nanoparticles can be prepared for in vitro or in vivo imaging, bind biomarkers, be functionalized for proper targeting, encapsulate, transport, and release drugs, and finally improve the properties of existing medical and pharmaceutical products and thus extend the range of their application.

It is our pleasure to invite you to submit your papers to this Special Issue, including but not limited to novel multifunctional nanoparticles for diagnostic and therapeutic approaches, syntheses, and surface modification strategies to overcome different biological barriers, and also topics related to biosensing.

Guest Editors

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Deadline for manuscript submissions

closed (20 March 2024)



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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

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