

## 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.

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### Guest Editors

Dr. Sofia Dembski

Biomaterials, Fraunhofer Institute for Silicate Research ISC,  
Translational Center Regenerative Therapies TLC-RT, Wuerzburg,  
Germany

Dr. Jörn Probst

Biomaterials, Fraunhofer Institute for Silicate Research ISC,  
Translational Center Regenerative Therapies TLC-RT, Wuerzburg,  
Germany

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### Deadline for manuscript submissions

closed (20 March 2024)



## Journal of Functional Biomaterials

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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](mailto:jfb@mdpi.com)

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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.

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### Editor-in-Chief

Prof. Dr. Pankaj Vadgama

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

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