

Special Issue

Complex Diagnostics of Multifunctional Polymer Nanostructures and Biomaterials

Message from the Guest Editors

The active development of biological materials for a wide range of biomedical applications in recent years requires the development of new diagnostic approaches for their study, optimization of existing methods, and the development of complex diagnostic solutions that simultaneously allow excitation and detection of signals of various natures: electrical, optical, magnetic, etc. This Special Issue is mainly aimed at identifying the existing urgent problems and hot spots of modern biomedicine, physics and chemistry in the field of polymer and biological materials with a description of ways to overcome the revealed problems by applying a wide range of methods implemented on the basis of modern diagnostic equipment. Special attention should be paid to investigations of multifunctional nanostructured polymers, the processes of fibrillation/destruction of polymers in various aggressive media, model solutions analogous to human biological fluids and the identification of new properties of synthesized/modified biomaterials, including the use of new materials for the functionalization of biosensor devices.

Guest Editors

Dr. Alexey V. Nashchekin
Ioffe Institute, Saint-Petersburg, Russia

Prof. Dr. Sergey G. Lushnikov
Ioffe Institute, Saint-Petersburg, Russia

Deadline for manuscript submissions

closed (5 April 2023)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.7
CiteScore 8.0
Indexed in PubMed



mdpi.com/si/98266

Polymers
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)





Polymers

an Open Access Journal
by MDPI

Impact Factor 4.7
CiteScore 8.0
Indexed in PubMed



[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)



About the Journal

Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of
Potsdam, 14476 Potsdam-Golm, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)