Special Issue

Polymer-Based Optoelectronic Sensors and Detectors

Message from the Guest Editors

Hybrid nanocomposites and devices have become an extremely active research field, encompassing novel nanomaterials, physical phenomena, and design concepts. In these areas, design scenarios typically attempt to confine optoelectronic functionality into the smallest possible volume to meet specifications in terms of integration density and device performance unparalleled by state-of-the-art technologies. This approach is based on the fundamental assumption that proper functionality is viable at the nanoscale and accessible from an environment whose scale is larger by several orders of magnitude. Scientists working on nanocomposites are faced with devices that are operated at their physical limit and therefore have to rely on holistic designs when exploiting new material properties to bypass restrictions posed by conventional optical designs and interfacing problems. The objective of this Special Issue is to address these conceptual challenges while highlighting novel trends in hybrid nanocomposites and devices, including recent progress in modeling and component development.

Guest Editors

Dr. Muhammad Sulaman

1. Beijing Key Lab of Nanophotonics and Ultrafine Optoelectronic Systems, Center for Micro-Nanotechnology, School of Physics, Beijing Institute of Technology, Beijing 100081, China
2. Key Lab of Advanced Optoelectronic Quantum Design and Measurement, Ministry of Education, School of Physics, Beijing Institute of Technology, Beijing 100081, China

Dr. Yanyan Cui

School of Optics and Photonics, Beijing Institute of Technology, Beijing 100081, China

Deadline for manuscript submissions

closed (15 January 2024)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/149585

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

mdpi.com/journal/polymers

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/journal/polymers

MDPI

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)