Special Issue

Self-Assembled Block Copolymers: Advances, Applications, and Beyond

Message from the Guest Editor

Technological innovations have driven the microelectronics industry toward miniaturized devices with higher processing speeds, and these devices could provide a model for revolutionary advances in industrial processes and equipment in the future. Self-assembled block copolymers (BCPs) have played a critical role and made significant contributions towards achieving this aim since the introduction of sub-50 nm-scale highly ordered self-assembled structures from BCPs for nanopatterning applications. With numerous pivotal contributions, the directed self-assembly of BCPs enables the microelectronic field to bring the length scale down to a 10 nm feature size, facilitating breakthroughs in experimental techniques and enabling the synthesis and characterization of a wide range of block copolymers with tailored composition, architectures, and properties.

This Special Issue aims to collate research papers on the advancements in the field of BCPs in terms of their synthesis, self-assembly techniques, applications, and nanopatterning beyond traditional directed self-assembly (DSA) methods.

Guest Editor

Dr. Hemali Rathnayake

Nanoscience Department, University of North Carolina Greensboro, Greensboro, NC 27412, USA

Deadline for manuscript submissions

closed (20 April 2024)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/187486

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)