polymers

an Open Access Journal by MDPI

IMPACT FACTOR 4.7

Indexed in: PubMed

CITESCORE 8.0

Patterning Polymer and Polymeric Scaffold Surfaces through Colloidal Lithography (CL) for Multimodal Applications

Guest Editor:

Dr. Rakkiyappan Chandran
Department of Nanoscience, Joint School of Nanoscience and Nanoengineering, University of North Carolina at Greensboro, Greensboro, NC 27412, USA

Deadline for manuscript submissions:
closed (25 August 2023)

Message from the Guest Editor

Nanostructured surfaces are a powerful means of controlling the surface properties of a material. Colloidal lithography (CL) techniques are emerging as an interesting method to form nanopatterns surfaces based on the colloid–colloid and colloid–substrate interactions. The colloidal lithography uses two-dimensional (2D) arrays of colloid particles as masks. The nanopatterns surfaces developed by this method can either be used in the current form or as masks. CL relies the use of colloidal crystals as masks for etching and deposition, and allows for the fabrication of various nanostructures on planar and nonplanar substrates with low-cost, high-throughput-processing, a large fabrication area, and a broad choice of materials. The advances in colloidal science have facilitated the synthesis process, with highly monodisperse colloidal particles with good phase stability.

This Special Issue will publish original research in the form of full papers, communications, and review articles focused on advanced polymer-based patterned surfaces, and their applications in antimicrobial, regenerative medicine, photonics and other biomedical fields.

polymers

IMPACT FACTOR 4.7 | Indexed in: PubMed | CITESCORE 8.0

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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 5.0.

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.

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)

Contact Us

Polymers Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
𝕏@Polymers_MDPI