



Smart Polymers and Nanocomposites for 3D Bioprinting

Guest Editors:

Dr. Elena Iuliana Bîru

Advanced Polymer Materials
Group, Department of
Bioresources and Polymer
Science, University Politehnica of
Bucharest, 1-7 Gh. Polizu Street,
011061 Bucharest, Romania

Prof. Dr. Horia Iovu

Advanced Polymer Materials
Group, Department of
Bioresources and Polymer
Science, Politehnica University of
Bucharest, 011061 Bucharest,
Romania

Deadline for manuscript
submissions:

closed (30 July 2023)

Message from the Guest Editors

Dear Colleagues,

Smart polymers are known for their outstanding features, which are extremely useful for biomedical applications. Stimuli-responsive polymers and smart polymer nanocomposites are nowadays engaged in 3D bioprinting in order to biofabricate novel functional, versatile, and hybrid tissue constructs that are able to make regenerative medicine possible. As a possible response to the worldwide organ shortage, bioprinting technology will break into healthcare, revolutionizing not only organ biofabrication but also cosmetic, chemical, and pharmaceutical products testing on animals.

In light of this, we are coordinating a Special Issue focused on original and new research advances in the area of 3D bioprinting, which includes biomaterials, functional and smart polymers, nanocomposites, and composites mimicking natural biomaterials. This Special Issue is open to any subject that deals with bioprinting techniques that employ different smart polymers (synthetic or natural) and will highlight the consistent advances in bioprinting in the biomedical field.

Dr. Elena Iuliana Bîru

Prof. Dr. Horia Iovu

Guest Editors





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 (*Polymers and Plastics*)

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](https://twitter.com/Polymers_MDPI)