

Special Issue

Polymeric Materials and Their Application in 3D Printing, 2nd Edition

Message from the Guest Editors

In the last decade, additive manufacturing's ability to produce customized parts with complex shapes has led to increased global demand for this technology as a manufacturing solution in various fields. Three-dimensional-printing-based technologies using polymeric materials offer cost-effectiveness, customized geometries, complex design, high-precision manufacturing, and reduced processing time while using highly sustainable materials. This Special Issue aims to gather the latest research in the field of 3D-printed polymers designed for application in the fields in which this technology attracts the most attention and interest. Papers are expected to implement experimental or simulation approaches to challenges in polymer and polymeric composite 3D printing techniques that are encountered in each engineering field. This Special Issue will focus on both fundamental and applied research aimed at the development, characterization, and application of polymers for 3D printing technologies implemented in, but not limited to, aerospace, automobiles, construction, medicine, prototyping, and consumer goods.

Guest Editors

Dr. Cristina-Elisabeta Pelin

National Institute for Aerospace Research "Elie Carafoli"—INCAS,
Bucharest, Romania

Prof. Dr. Anton Ficai

Department of Science and Engineering of Oxide Materials and
Nanomaterials, Faculty of Applied Chemistry and Materials Science,
University Politehnica of Bucharest, 01106 Bucharest, Romania

Deadline for manuscript submissions

31 August 2025



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/204180

Polymers
Editorial Office
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 4.9
CiteScore 9.7
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)