Special Issue

Mechanical and Physical Properties of 3D Printed Polymer Materials

Message from the Guest Editor

Additive manufacturing is becoming widely applied as a manufacturing process in both the aerospace and automotive fields, mainly due to design flexibility, a reduction in the design-to-manufacturing cycle time, the capability to produce complex shapes without manufacturing restraints, a reduction in joints and connections, and a decrease in raw material waste. Selective laser sintering, selective laser melting, fused deposition modelling, and stereolithography are the most common and popular additive manufacturing techniques. Various polymers applied in the 3D printing technique more or less demonstrate anisotropic material behaviour. The printing quality of 3D-printed parts can be evaluated through their mechanical properties. This Special Issue aims to present current scientific results regarding the effects of the processing conditions and manufacturing parameters on the mechanical and physical properties of 3D-printed polymers, including experimental characterization and modellina.

Guest Editor

Dr. Tatjana Glaskova-Kuzmina

Institute for Mechanics of Materials, University of Latvia, LV-1004 Riga, Latvia

Deadline for manuscript submissions

closed (15 January 2025)



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



mdpi.com/si/144786

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



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)

