

Special Issue

Sustainable and Circular Polymer Composites for Additive Manufacturing

Message from the Guest Editor

This Special Issue, entitled “Sustainable and Circular Polymer Composites for Additive Manufacturing”, aims to highlight innovative research on biodegradable, recyclable, and circular polymer blends enhanced with fillers and additives to improve mechanical, thermal, and processing properties. At the Eco-Friendly Circular Advanced Materials and Additive Manufacturing (E-CAM) lab, we focus on developing novel material formulations by incorporating bio-based and recycled polymers with functional fillers to create high-performance, low-carbon, and sustainable 3D-printable composites. Our research explores the integration of waste, biomass, nanomaterials, and proprietary eco-friendly additives to enhance printability and end-use properties. The goal is to advance circular economy principles in additive manufacturing by transforming waste into value-added products across industries. This Special Issue invites original research and review articles covering material development; material and process optimization; rheological, thermal, and mechanical characterization; and the broader implications of sustainable polymer composites in additive manufacturing.

Guest Editor

Dr. Ramona Fayazfar

Mechanical & Manufacturing Engineering, Ontario Tech University, ON L1G 0C5, Canada

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/232004

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)