

Special Issue

Advanced 3D-Printed Biopolymer-Based Composites

Message from the Guest Editor

Additive manufacturing (AM), commonly known as 3D printing, has been a promising technology in various applications, such as aeronautics, civil engineering, automotive engineering, and medicine. Compared to traditional subtractive manufacturing, AM enables the automatic fabrication of products or functional components with complex shapes at a low manufacturing cost. In addition, the development of environmentally sustainable products from biomass and lower chemical consumption are required by the 3D printing technique. Natural-derived biopolymers, including cellulose, hemicellulose, lignin, starch, alginate, and chitosan, are widely available, biodegradable, biocompatible, renewable, and inherently functional. On the other hand, natural fibers have various advantages, including good mechanical properties, low density, and a reduction in cost. The aim of this Special Issue is to investigate the application and development of advanced 3D printing biopolymer-based composites. Authors are invited to submit original research articles on novel, functional, and environmentally sustainable biocomposite materials for 3D printing

Guest Editor

Dr. Teng-Chun Yang

Department of Forestry, National Chung Hsing University, Taichung 402, Taiwan

Deadline for manuscript submissions

31 August 2025



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.7
CiteScore 8.0
Indexed in PubMed



mdpi.com/si/204594

Polymers

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 4.7
CiteScore 8.0
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)