



## Advanced FFF-Printed Polymeric Composites: Characterization, Modification, and Application

Guest Editor:

**Dr. Teng-Chun Yang**

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

Deadline for manuscript  
submissions:

**closed (31 January 2024)**

### Message from the Guest Editor

Dear Colleagues,

Fused filament fabrication (FFF) has recently gained popularity and achieved widespread use as the manufacturing process of desktop 3D printers. FFF allows solid parts with a 3D geometry to be formed by assembling successive layers of conventional or biodegradable thermoplastic material, such as polypropylene (PP), acrylonitrile butadiene styrene (ABS), and polylactic acid (PLA). Recently, natural or synthetic fibers are used as a filament reinforcement and incorporated into thermoplastics to manufacture composite filament. Additionally, printed materials with various lattice structures were widely designed to develop functional materials. The aim of this Special Issue is to investigate the application and development of 3D-printed functional materials using FFF. All authors are invited to contribute original research articles on filament improvement, structure design of printed material, and FFF printing technologies.





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 (General Chemistry)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/polymers](http://mdpi.com/journal/polymers)  
[polymers@mdpi.com](mailto:polymers@mdpi.com)  
[X@Polymers\\_MDPI](https://twitter.com/Polymers_MDPI)