

## Special Issue

# Recent Advancements in Additive Manufacturing of Polymer Composites

### Message from the Guest Editors

The additive manufacturing (AM) of polymer composites is transforming how functional materials and components are designed, optimized, and produced across industries. This Special Issue of *Polymers* focuses on emerging technologies and material systems that push the boundaries of AM for polymers and composites. We seek contributions addressing advanced feedstock design, interfacial compatibility, reinforcement strategies, and structure–property optimization through computational modelling, process simulation, and in situ monitoring. Studies tackling cutting-edge challenges such as multi-material integration, anisotropy control, porosity reduction, and scaling from prototyping to production are particularly encouraged, along with research linking AM process innovation with digital manufacturing (through AI-assisted optimization, digital twins, and closed-loop control). By combining insights with materials science, manufacturing engineering, and digital technologies, this Special Issue aims to showcase the most recent breakthroughs in the reliable, scalable, and sustainable additive manufacturing of polymer composites for next-generation engineering applications.

### Guest Editors

Dr. Atefeh Golbang

Dr. Faisal Manzoor

Prof. Dr. Alistair McIlhagger

### Deadline for manuscript submissions

30 June 2026



## Polymers

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## 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 4.9.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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