

Special Issue

Additive Manufacturing Technology of Polymer-Based Composites

Message from the Guest Editor

Additive manufacturing (AM), or 3D printing, has revolutionized the fabrication of polymer-based composites. This Special Issue focuses on recent advances in AM technologies for polymer composites, emphasizing innovative materials, processing techniques, and emerging applications.

We invite contributions exploring cutting-edge developments in the following areas:

- Advanced 3D/4D printing techniques for smart materials and responsive structures;

- Sustainable composites and recycling strategies to enhance circularity in AM;

- Covalent adaptable networks (CANs) for reprocessable and self-healing composites;

- Nanocomposites with enhanced mechanical, electrical, or thermal properties;

- Energy storage and thermal management applications, including printed batteries and heat exchangers;

- Metamaterials with tailored mechanical, acoustic, or electromagnetic properties;

- Smart materials and multifunctionality, integrating sensing, actuation, or adaptive behaviours.

We welcome original research articles, reviews, and perspectives that highlight novel advancements in this rapidly evolving field.

Guest Editor

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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.

Editor-in-Chief

Prof. Dr. Alexander Böker

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