

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

Chemical and Biochemical Engineering Department, Western University, London, ON N6A 2L9, Canada

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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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

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 14476 Potsdam-Golm, Germany

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