# **Special Issue**

# Advances in 3D (Bio)printing of Polymeric Materials

# Message from the Guest Editors

The advancement of biomaterials for biomedical applications is being rapidly accelerated by the integration of additive manufacturing (AM) technologies, particularly in the field of bioprinting. This technology has evolved significantly, driving the creation of biomimetic and hierarchical tissue constructs for regenerative medicine and in vitro biological models through its precise and automated cell deposition.

A key driver behind the success of bioprinting is the continuous development of advanced biomaterials, particularly bioinks and biomaterial inks that provide tailored rheological properties, cell-instructive functionalities, and dynamic crosslinking strategies. These innovations are crucial not only for structural fidelity and printability but also for promoting cellular viability, differentiation, and long-term tissue integration.

For this Special Issue of Polymers, we invite contributions that highlight recent breakthroughs in 3D (bio)printing and biomaterials science, with a focus on polymeric material innovation and technological integration.

We look forward to your contributions.

#### **Guest Editors**

Prof. Dr. Eduardo Henrique Backes

Graduate Program in Materials Science and Engineering (PPGCEM), Federal University of São Carlos (UFSCar), Rod. Washington Luís, Km 235, São Carlos 13565-905, SP, Brazil

Prof. Dr. Bianca Chieregato Maniglia

São Carlos Institute of Chemistry, University of Sao Paulo, Av Trabalhador São Carlense, 400, São Carlos 13566-590, SP, Brazil

## Deadline for manuscript submissions

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

mdpi.com/journal/polymers





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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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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