

## Special Issue

# The Next Generation of Smart Materials and 3D/4D Printing Technologies

### Message from the Guest Editors

Under the umbrella of smart materials, advanced composites, functionally graded materials, shape memory materials, multi-phase materials, and biomaterials, to name a few, play a crucial and promising role in applications such as conductors, actuators, sensors, MEMS, drug delivery, chemicals detection, power generation and storage, and self-assembly. Over the last four decades, three-dimensional (3D) printing technology has led to a tremendous breakthrough in academia and industry regarding the fabrication of complex shapes and structures with multimaterials. Based on this success, a booming research field has been emerged over the last six years in the development of dynamic or alive structures, leading to the paradigm of 4D printing, which enables the tailored manufacturing of smart materials and structures that can actively respond to external stimuli. This Special Issue is to promote the dissemination of significant developments dealing with smart materials, composite structures, and 3D/4D printing technologies.

### Guest Editors

Dr. Mahdi Bodaghi

Department of Engineering, School of Science and Technology,  
Nottingham Trent University, Nottingham NG11 8NS, UK

Prof. Dr. Frédéric Demoly

ICB UMR 6303 CNRS, Univ. Bourgogne Franche-Comté, Belfort-Montbéliard University of Technology, 90010 Belfort, France

### Deadline for manuscript submissions

closed (20 June 2021)



## Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/37698](https://mdpi.com/si/37698)

*Polymers*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[polymers@mdpi.com](mailto:polymers@mdpi.com)

[mdpi.com/journal/  
polymers](https://mdpi.com/journal/polymers)





# Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/journal/  
polymers](https://mdpi.com/journal/polymers)



## 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 4.7.

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

---

### 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)