



an Open Access Journal by MDPI

# Advances in the Mechanical Behavior of Polymeric Materials

Guest Editors:

# Dr. Gabriela Mărginean

Department of Materials Science and Testing, Westphalian University of Applied Sciences Gelsenkirchen Bocholt Recklinghausen, Neidenburger str. 43, 45897 Gelsenkirchen, Germany

#### Dr. Vasile Cojocaru

Department of Engineering Science, Faculty of Engineering, Babeş-Bolyai University, 32008 Reşiţa, Romania

#### Prof. Dr. Doina Frunzăverde

Department of Engineering Science, Faculty of Engineering, Babeş-Bolyai University, 320085 Reşiţa, Romania

Deadline for manuscript submissions: closed (20 March 2023)



mdpi.com/si/95219

### **Message from the Guest Editors**

Dear Colleagues,

This Special Issue is dedicated to research activities concerning the characterization of the mechanical behavior of polymeric materials (including polymer composites).

Publications may focus on (but are not limited to) the optimization of process parameters for the production of polymeric specimens with high mechanical properties, on experimental/numerical methods for the investigation/prediction of the mechanical behavior, and/or on the characterization of the failure mechanism of polymeric materials.

Topics of interest include:

- Theoretical aspects of the mechanical behavior of polymeric materials;
- Characterization of fracture phenomena of polymeric components;
- Experimental research on the mechanical behavior of polymeric components;
- Optimization of process parameters to maximize mechanical properties;
- Design of experiments in additive manufacturing of polymers;

Dr. Gabriela Mărginean Dr. Vasile Cojocaru Prof. Dr. Doina Frunzăverde *Guest Editors* 





an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Alexander Böker

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

### 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 highquality 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 5.0.

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.

# **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)

### **Contact Us**

*Polymers* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/polymers polymers@mdpi.com X@Polymers\_MDPI