



## Fatigue and Aging Degradation of Polymeric Materials

Guest Editor:

**Dr. Małgorzata Szymiczek**

Department of Theoretical and Applied Mechanics, Silesian University of Technology, 44-100 Gliwice, Poland

Deadline for manuscript submissions:

**closed (5 October 2022)**

### Message from the Guest Editor

The development of polymer engineering, the search for new, innovative materials with often programmable properties has resulted in the expansion of the area of their application, especially in the transport, construction, military, packaging and medical industries. The application of new polymeric materials often requires a synergistic solution, combining a number of mechanical, electrical, thermal, requiring specific model approach. In this approach, the knowledge of exploitation characteristics resulting from the aging and fatigue degradation of polymeric materials is also important. Qualitative and quantitative defined degradation processes is important for both construction design and safe exploitation. The aim of this Special Issue is to exchange information about changes in the characteristics of polymeric materials and their composites during exploitation. Particular emphasis will be placed on assessing the impact of degradation factors on the exploitation properties of the tested materials and defining the mechanisms of their destruction using non-destructive testing methods.





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 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 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