



Developments in Multifunctional Flame-Retardant Polymer Composites

Guest Editor:

Prof. Dr. Zhubao Shao

Institute of Functional Textiles and Advanced Materials, National Engineering Research Center for Advanced Fire-Safety Materials D & A (Shandong), College of Textiles and Clothing, State Key Laboratory of Bio-Fibers and Eco-Textiles, Qingdao University, Ningxia Road, 308, Qingdao 266071, China

Deadline for manuscript submissions:

closed (20 June 2023)

Message from the Guest Editor

The aim of this special issue is to highlight the most recent advances in applications of flame-retardant materials, including: fundamentals of the preparation, characterization, performances in view of the urgent requirement to multifunctional fire-safety polymeric materials.

The large-scale application of polymeric materials is often accompanied by fire hazards. Nowadays, the function of most flame retardants is relatively simple, meanwhile, the introduction of flame retardants usually deteriorates the self-performance of polymeric materials. To meet the requirements, the development of alternative multifunctional flame retardants and flame-retardant materials has attracted widespread attention.

We invite the research community to contribute to this Special Issue by submitting comprehensive reviews or original research articles. The topics of interest include, but are not limited to, the following:

New fire retardants and synergists;

Bio-based or biomass flame retardants;

Flame-retardant coating;

Multifunctional performances;

Advances in flame-retardant characterization techniques

Flame-retardant mechanisms;





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