## Special Issue

## Dynamic Behavior of Polymer Composite Materials and Structures

## Message from the Guest Editors

Polymer composite materials have been increasingly employed in a broad range of engineering fields, such as the automobile, aviation, aerospace, and defense industries, owing to their high specific stiffness and strength. In such applications, composite structures are vulnerable to various dynamic loads, including dropped tools, hailstones, windborne objects, bird strikes, runway debris, etc. This Special Issue aims to provide a platform for researchers to share the latest results on the mechanical behavior of polymer composite materials under dynamic loading conditions involving a high strain rate, impact, blast, penetration, and shock response. New developments in experimental techniques, modeling approaches, diagnostics, and optimizations for the study of polymer composites in the dynamic regime are also of particular interest. Polymer composite materials of interest include, but are not limited to, fiber-reinforced polymer laminates, sandwich panels, lightweight cellular solids, bioinspired composite materials, 3D-printed composites, etc.

### **Guest Editors**

Dr. Hongxu Wang

School of Engineering and Information Technology, The University of New South Wales, Canberra, ACT 2600, Australia

Dr. Jonathan Tran

School of Engineering, STEM College, RMIT University, Melbourne, Australia

### Deadline for manuscript submissions

closed (5 August 2024)



# **Polymers**

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/116590

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

mdpi.com/journal/polymers





# Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



## **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 4.9.

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

#### **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)

