Special Issue

Advances in Carbon-Reinforced Polymer Composites

Message from the Guest Editor

Carbon materials exhibit high electrical conductivity, thermal conductivity, and exceptional mechanical properties. In addition, they are lightweight, costeffective, and noncorrosive, leading to polymers with significant new properties and functionalities. These distinctive characteristics of carbon-reinforced polymer composites have resulted in tons of potential applications including sensors, solar cells, supercapacitors, armor, and so on. Specifically, the performance of carbon-reinforced polymer composites is influenced by the intrinsic properties of carbon materials and polymers, the interface between carbon materials and the polymer matrix, and the microstructure of the carbon materials. Various manufacturing processes and numerical simulations are employed to address these challenges and enhance the application of carbon-reinforced polymer composites. Therefore, this Special Issue welcomes works including, but not limited to, the use of new carbon materials, advanced manufacturing, microstructure design, interface modification, and structure-property interrelation experimentally and numerically to push forward applications for carbon-reinforced polymer composites.

Guest Editor

Dr. Lizhi Guan

School of Mechanical and Aerospace Engineering, College of Engineering, Nanyang Technological University, Singapore City, Singapore

Deadline for manuscript submissions

closed (30 June 2024)



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



mdpi.com/si/192923

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 4.7.

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)

