

Special Issue

Advanced Joining Technologies for Carbon Fiber Reinforced Thermoplastics (CFRTPs)

Message from the Guest Editor

Carbon-fiber-reinforced thermoplastics (CFRTPs) have attracted the attention of many researchers from the automotive and aerospace industries because of their low density, high specific strength, high load-bearing capacity, excellent corrosion resistance. Joining is one of the enabling technologies for the upscaling of CFRTPs in the primary structural components because the high viscosity of the polymer matrix and continuous reinforcement of fibers limit the size and structure of CFRTP products in small and simple geometries. In addition, hybrid metal/composite or metal/plastic structures are still indispensable in many applications for the foreseeable future. The significant physical and chemical difference between CFRTP and metals makes the joining between them very difficult. There is an increasing interest in developing an effective method for joining CFRTP to metals. This Special Issue aims to present the latest scientific and technical advances in the welding and joining of CFRTP to polymer-based composites and CFRTP to metals, including but not limited to process development and optimization, joint characterization, modeling and simulation, performance prediction.

Guest Editor

Dr. Yang Li

School of Materials Science and Engineering, Tianjin University, Tianjin 300354, China

Deadline for manuscript submissions

closed (30 June 2023)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/98294

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

[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)





Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)



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

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)