Special Issue

Preparation and Performance Study of Polymer-Based Textile Composites

Message from the Guest Editors

With the awareness of the importance of composite performance under a variety of conditions in relation to mechanical behaviours across scales, this Special Issue of Polymers invites contributions addressing several aspects of polymer-based textile composites in view of mechanics analyses under different processes, such as: interpreting the weaveability or braidability of fibres. especially for hard and brittle polymer fibres, capable of being utilized to manufacture near-shaped reinforcements; the study of mechanical behaviours on textile reinforcements during preforming processes. ranging from yarn to fabric scales (mesoscale and macroscale, respectively), in order to figure out how to optimize the preforming process, taking into consideration textile reinforcement properties; simulations based on a new modelling method to advance our knowledge of mechanical behaviours of textile reinforcements: the advanced structure of textile reinforcements and its relation to composite mechanical performance; research regarding the relationship between the polymer resin injection process and composite mechanical properties; etc.

Guest Editors

Prof. Dr. Peng Wang

ENSISA, University of Haute-Alsace, Mulhouse, France

Dr. Shenglei Xiao

School of Mechanical Engineering, Dalian University of Technology, Dalian, China

Deadline for manuscript submissions

closed (15 December 2022)



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



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

mdpi.com/journal/polymers





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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

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