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Fiber Reinforced Thermoplastic Composites: Processing/Structure/Performance Inter-relationships

Guest Editors:

Dr. Abderrahmane Ayadi
Centre for Materials and Processes, Institut Mines-Télécom, IMT Nord Europe, Douai, France

Prof. Dr. Patricia Krawczak
Institut Mines-Télécom, IMT Nord Europe, Centre for Materials and Processes, Douai, France

Prof. Dr. Chung Hae Park
IMT Nord Europe, Institut Mines-Télécom, Univ. Lille, Centre for Materials and Processes, F-59000 Lille, France

Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editors

Dear Colleagues,

The search for eco-responsible solutions is attracting the interest of end-use industries toward FRT composites. However, many challenges are limiting the development of optimization approaches of FRT composites for structural parts. Such challenges emanate from complexities related to the multiscale structure of reinforcement and multiphysical phenomena governing the use of thermoplastics within liquid resin transfer processes. In this context, the development of new interdisciplinary approaches for better understanding processing-structure-performance inter-relationships is encouraged to alleviate challenges related to smart manufacturing, advanced microstructure characterization, numerical modeling of physical phenomena or simulation approaches. The current Special Issue aims to explore recent developments focused on FRT composites. Multidisciplinary articles and review papers are encouraged to cover emerging topics such as artificial intelligence applied to manufacturing, data-driven simulations, multimodal microstructure characterization, hierarchical FRT composites, mechanical metamaterials, etc.

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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 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.

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Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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𝕏@Polymers_MDPI