



## Multiscale Modelling of Fiber Reinforced Polymer Composites

Guest Editor:

### Dr. Ruben Sevenois

Department of Materials, Textiles  
and Chemical Engineering,  
Faculty of Engineering and  
Architecture, Ghent University,  
Technologiepark Zwijnaarde 46,  
9052 Zwijnaarde, Belgium

Deadline for manuscript  
submissions:  
**closed (30 August 2023)**

### Message from the Guest Editor

Dear Colleagues,

The Special Issue is aimed at manuscripts concerning the multiscale modelling of fibre-reinforced polymer composites. The scope is the prediction of macroscopic thermomechanical properties and the assessment of microstructural phenomena using multiscale modelling techniques. All mechanical phenomena which occur in FRP are considered. Among them are stiffness, strength, the (microstructural) evolution of damage and permanent strain, and their dependency on temperature, humidity, strain rate or crystalline morphology; all forms of FRP; and thermoset, thermoplastic, or vitrimer matrix material reinforced with short or continuous fibres in random, unidirectional or woven geometrical arrangement. Authors are encouraged to validate their model predictions with experimental results.

Dr. Ruben Sevenois  
*Guest Editor*





an Open Access Journal by MDPI

## 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 5.0.

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.

## 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)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/polymers  
polymers@mdpi.com  
X@Polymers\_MDPI