



## Advanced Polymer Composite Materials: Processing, Modeling, Properties and Applications

Guest Editors:

### Dr. Giorgio Luciano

National Research Council of Italy—Institute of Chemical Sciences and Technologies  
“Giulio Natta” CNR SCITEC, Via De Marini 6, 16149 Genova, Italy

### Dr. Paola Stagnaro

Consiglio Nazionale delle Ricerche, Istituto di Scienze e Tecnologie Chimiche “Giulio Natta”, CNR-SCITEC, Genova, Italy

### Dr. Maurizio Vignolo

Consiglio Nazionale delle Ricerche, Istituto di Scienze e Tecnologie Chimiche “Giulio Natta”, CNR-SCITEC, 16149 Genova, Italy

Deadline for manuscript submissions:  
**closed (5 October 2022)**

### Message from the Guest Editors

Polymer-based composites are often a valid alternative to traditional materials, because they combine mechanical resistance to lightness, flexibility to optical properties, formability to low cost processing. Due to their peculiar properties and versatility polymer-based composites, they have found applications in many industrial fields: construction, automotive, aerospace, biomedicine, marine, just to name a few.

The purpose of this Special Issue is to highlight the latest original results in the development of advanced composite materials based on synthetic/natural polymers and synthetic/natural (nano)fillers/fibers, with improved properties required by the foreseen different applications. As a consequence, the present Special Issue represents the right channel to publish on cutting-edge applications related to advanced polymeric composite materials. All kinds of polymer matrices, either commodity and engineering polymers or newly developed ones, such as bio-based and/or biodegradable polymers, from thermosets and thermoplastics to vitrimers, can be considered.





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 (*Polymers and Plastics*)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/polymers](http://mdpi.com/journal/polymers)  
[polymers@mdpi.com](mailto:polymers@mdpi.com)  
[X@Polymers\\_MDPI](https://twitter.com/Polymers_MDPI)