

## Special Issue

# Fiber Reinforced Polymers Applications as Reinforcement of Concrete Structures—Design Aspects, Tests and Analysis, 2nd Edition

### Message from the Guest Editors

The application of Fiber Reinforced Polymers (FRP) as main, supplementary, and strengthening reinforcement in concrete structures has significantly advanced in recent years, driven by the demand for more durable and non-corrosive materials. As the construction industry increasingly adopts FRP reinforcement, manufacturers worldwide continue to develop a broad array of FRP materials, such as textile composites and FRP bars, each offering enhanced properties. This special issue will focus on cutting-edge research and novel approaches in FRP reinforcement for both existing and new concrete structures. Contributions addressing innovative uses of FRP in structural members, as well as experimental, numerical, and analytical studies, are highly encouraged. Research highlighting FRP performance, including bond behavior under monotonic and cyclic loadings or in challenging environmental conditions, will also be considered. The issue aims to showcase the most forward-thinking applications of FRP technology, emphasizing its role in the future of sustainable and resilient infrastructure.

### Guest Editors

Dr. Violetta Kytinou

Prof. Dr. Constantin Chalioris

Dr. Adamantis Zapris

### Deadline for manuscript submissions

31 October 2025



## Polymers

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/220363](https://mdpi.com/si/220363)

*Polymers*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[polymers@mdpi.com](mailto: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 4.7.

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.

---

### Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 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, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

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