

Special Issue

Fiber-Reinforced Polymers in Construction and Building

Message from the Guest Editors

Fiber-Reinforced Polymers (FRPs) are redefining construction practices by offering improved strength, toughness, and long-term durability. This Special Issue presents recent developments and applications of FRP in building and infrastructure projects. Experimental studies play a critical role in understanding the behavior of FRP under diverse conditions, enabling the validation of theoretical models and the development of design guidelines. These investigations provide essential data on cracking, shrinkage, load-bearing capacity, and long-term performance. In parallel, Artificial Intelligence (AI) and Machine Learning (ML) are emerging as powerful tools for optimizing mix designs, predicting material behavior, and enhancing quality control. Their integration with experimental research leads to more accurate modeling, reduced testing time, and smarter construction solutions. This issue aims to inform engineers, researchers, and practitioners about the synergy between experimental research, digital technologies, and practical innovations that are driving the future of resilient and sustainable concrete construction.

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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 4.9.

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

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