

Special Issue

Advanced Polymeric Materials for Buildings

Message from the Guest Editor

The rapid evolution of polymer science has positioned advanced polymer materials as transformative agents in modern construction, addressing critical challenges in durability, sustainability, and multifunctionality.

Polymer concretes (PC), asphalt, polyurethane, and epoxy resins with mineral aggregates demonstrate superior crack resistance and rapid curing, enabling precise repairs in aggressive environments. Polymers now play a pivotal role in green construction through recyclable bio-based resins and low-carbon production processes. Additionally, polymer-modified mortars enhance waterproofing and thermal insulation, minimizing energy consumption in buildings.

Advanced polymeric materials in buildings represent a paradigm shift in construction, offering resilient, eco-conscious, and intelligent solutions. Continued innovation in material design and interdisciplinary research will be instrumental in meeting the evolving demands of sustainable urbanization.

This Special Issue synthesizes recent advancements in polymer-based building materials, emphasizing their structural, environmental, and smart functional applications.

We look forward to your submissions.

Guest Editor

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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 5.8.

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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