

Special Issue

Polymers in Infrastructural Engineering: Fundamentals and Applications

Message from the Guest Editor

Polymers and polymer-based composites exhibit outstanding characteristics, including lightweight design, high stiffness, superior specific strength, resilience against fatigue, wear, and corrosion, as well as ease of fabrication, cost-effectiveness, design versatility, and favorable thermal expansion traits. Advanced polymers and composites are developed for sustainable use in increasing the serviceability of the structures of construction and infrastructure. This Special Issue discusses issues regarding the fundamentals and applications of polymers and polymer composites in infrastructural engineering, such as buildings, pavements, and bridges. Topics of interest include, but are not limited to, the following:

- Synthesis and characterization of advanced polymers in infrastructure;
- Polymer foams in structure and infrastructure;
- Polymer coatings and elastomers in infrastructure;
- Polymer grouting materials;
- Polymer-based cementitious materials;
- Polymer-modified asphalt and mixture;
- Polymer adhesives and sealants in infrastructure;
- Functional polymers in infrastructure.

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 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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