

Special Issue

High-Performance Cement-Based Composites with Polymers

Message from the Guest Editor

This Special Issue aims to showcase recent advances in the design, characterization, and application of polymer-modified cementitious materials. Contributions are welcomed on topics including, but not limited to, the following: polymer latexes and emulsions for improved bonding and impermeability; fiber-reinforced composites for enhanced toughness and crack control; water-soluble and superplasticizing polymers for rheology optimization; and functional polymers for self-healing, thermal regulation, or sensing capabilities. Emphasis will be placed on materials with improved mechanical performance, durability under aggressive environments, or multifunctional behavior. Both experimental and theoretical studies, including multiscale modeling and life-cycle assessment, are encouraged. This Special Issue provides a platform for researchers and industry professionals to present cutting-edge developments that contribute to the next generation of sustainable, high-performance cementitious systems. Manuscripts should highlight the role of polymers in achieving these enhanced performances.

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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