Special Issue

Design and Analysis of Inorganic-Polymer Composite Materials for Circular Economy

Message from the Guest Editors

The production of building materials generates a high number of negative externalities associated with greenhouse gas emissions, the exploitation of natural resources, and the landfilling of waste materials in particular. These circumstances, together with the highenergy intensity of the sector, are the reason why great emphasis is placed on the transformation of the construction sector, including the use of less energyintensive binders, the intensification of material reuse. and the abandonment of landfilling. Inorganic polymers (geopolymers or, in a broader sense, alkali- and acidactivated materials) represent a family of materials with diverse chemical and mineralogical structures according to used mixture constituents. This broad range of materials is often combined with various admixtures to obtain composites with desired material properties. The primary aim of this Special Issue is to present possible applications of inorganic polymerbased composites in the building industry based on the characterization of their material properties. Manuscripts focused on new experimental techniques or composite design approaches are also welcome.

Guest Editors

Prof. Dr. Robert Černý

Department of Materials Engineering and Chemistry, Faculty of Civil Engineering, Czech Technical University in Prague, Thákurova 7, 166 29 Prague, Czech Republic

Dr. Jan Fořt

Department of Materials Engineering and Chemistry, Faculty of Civil Engineering, Czech Technical University in Prague, Prague, Czech Republic

Deadline for manuscript submissions

closed (20 October 2025)



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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers





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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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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