



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

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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 high-energy intensity of the sector, are the reason why great emphasis is placed on the transformation of the construction sector, including the use of less energy-intensive binders, the intensification of material reuse, and the abandonment of landfilling. Inorganic polymers (geopolymers or, in a broader sense, alkali- and acid-activated 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 polymer-based 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.





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Message from the Editor-in-Chief

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