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## Structural and Functional Performance of Geopolymer Materials

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Deadline for manuscript submissions:  
**closed (20 October 2023)**

### Message from the Guest Editors

In applications as cement and concrete materials, geopolymers can reduce energy consumption during production, emission of greenhouse gases, and environmental impacts. These characteristics, combined with high early-age strength and fast hardness characteristics, allow considering these materials as a promising green alternative to ordinary Portland cement-based materials.

Geopolymer concrete can find application in building, construction, repair, restoring, marine construction, etc. Moreover, they can be used in the construction industry to produce precast materials or in the coating of cement structures for the rehabilitation of compromised structures, flame inertization, and improvement of resistance to acids and water. Special applications include the immobilization of heavy metal pollution, pH regulator materials, catalysts, conductive materials for moisture sensor applications, and thermal storage.

Functional applications such as fire prevention, isolation, heat preservation, and adsorption of harmful ions, can be used for buildings in special fields, such as fire prevention buildings, insulation walls, biomaterials, and, nuclear power plants can be considered.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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