



Geopolymers: Recent Research and Future Prospect

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Message from the Guest Editor

Geopolymers are amorphous ceramic materials obtained from the alkaline activation of aluminosilicates, including those derived from wastes. They can help to reduce the energy consumption during production, the emission of greenhouse gases, and the environmental impacts if compared to ordinary Portland cement-based materials. The application fields of geopolymers can be divided into two main categories: those with conventional physical and mechanical properties, and those for functional and advanced applications.

Geopolymers belonging to the first category can find applications in building, construction, repair, restoring, marine construction, pavement base materials, 3D printing, fire-resistant and high-temperature materials, and thermal and acoustic insulation. 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 in fire prevention, isolation, heat preservation, and adsorption of harmful ions, can be used for buildings in special fields.





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