Special Issue

Geopolymers: Recent Research and Future Prospect

Message from the Guest Editor

Geopolymers are amorphous ceramic materials obtained from the alkaline activation of aluminosilicates, including those derived from wastes. 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. These range from such examples as fire prevention buildings, insulation walls, biomaterials, and nuclear power plants. We are pleased to invite expert submissions in the field of geopolymers for inclusion in this Special Issue.

Guest Editor

Dr. Laura Ricciotti

Department of Architecture and Industrial Design, University of Campania, Luigi Vanvitelli, 81031 Aversa, Italy

Deadline for manuscript submissions

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

mdpi.com/journal/materials

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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