Special Issue

Advances in Microstructure and Sustainability of Geopolymers and Alkali Activated Materials

Message from the Guest Editors

As the construction industry increasingly focuses on sustainability, geopolymers and alkali-activated materials offer viable alternatives to traditional cement, significantly reducing carbon emissions and energy consumption. We invite you to contribute to our Special Issue on "Advances in Microstructure and Sustainability of Geopolymers and Alkali Activated Materials", publishing in *Materials*. In this Special Issue, we welcome original research articles and reviews that cover, but are not limited to, the following topics:

- Microstructural analysis and characterization techniques;
- Mechanical and thermal properties;
- Durability and environmental resistance;
- Sustainable applications in construction and infrastructure;
- Recycling of industrial by-products and waste materials;
- Advanced testing and analytical methods;
- Computational methods and modeling approaches for geopolymer materials;
- Applications of geopolymers in soil and geotechnical engineering;
- Three-dimensional printing with geopolymers;
- Artistic and restoration applications of geopolymers;
- Nanomaterials for enhancing geopolymer properties.

Guest Editors

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Deadline for manuscript submissions

20 October 2025

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/215720

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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