

## Special Issue

# Geopolymers and Alkali-Activated Materials: Synthesis, Characterization, and Applications

### Message from the Guest Editor

Over the past decade, tremendous effort has been made in the field of alkali-activated materials and geopolymers to promote their large-scale adoption as construction materials, but also to widen their application range far beyond their use as Portland cement replacement. This Special Issue will collect the most recent advances on the synthesis, characterization, and applications envisioned for such eco-friendly materials. It is my pleasure to invite you to submit a manuscript for this Special Issue focusing on the use of unconventional precursors and synthesis protocols, and covering different applications including construction materials, thermal and acoustic insulators, adsorbents, catalysts, and pH regulators, among others. This issue will provide a deeper knowledge regarding the properties of geopolymers and alkali-activated materials to foster the widespread use of this technology.

### Guest Editor

Dr. Rui M. Novais

Department of Materials and Ceramic Engineering, CICECO-Aveiro  
Institute of Materials, University of Aveiro, Aveiro, Portugal

### Deadline for manuscript submissions

closed (20 February 2023)



## Materials

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/79304](https://mdpi.com/si/79304)

*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

[mdpi.com/journal/  
materials](https://mdpi.com/journal/materials)





# Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/journal/  
materials](https://mdpi.com/journal/materials)



## About the Journal

### Message from the Editorial Board

*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.

---

### Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q1 (Condensed Matter Physics)