# Special Issue

# Innovative Construction Materials for Sustainable and Greener Applications

## Message from the Guest Editors

The Special Issue, "Innovative Construction Materials for Sustainable and Greener Applications," is dedicated to deeply exploring the potential of solid waste and industrial by-products as raw materials for low-carbon cementitious materials. It aims to enhance the recycling rate of industrial solid waste while significantly reducing energy consumption and $CO_2$ emissions. This innovative strategy not only offers creative solutions to address resource depletion and environmental degradation but also strives to enhance the durability and overall performance of concrete structures, thereby spearheading a green revolution in the building materials industry. This Special Issue aims to gather original research papers related to innovative Construction Materials. The scope of this Special Issue includes, but is not limited to, the following topics: resource utilization of solid waste, innovative explorations of low-carbon concrete formulations, and cutting-edge research on the application of low-carbon concrete.

## Guest Editors

Dr. Yongfan Gong

Prof. Dr. Zijian Song

Dr. Mian Luo

Dr. Chenhui Zhu

## Deadline for manuscript submissions

closed (20 October 2025)

**Materials**

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

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## 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.

## 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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