

## Special Issue

# Exploring Innovative Sustainable Building Materials for a Greener Future

### Message from the Guest Editors

As the world grapples with the urgent need for sustainable development, the construction industry has a vital role to play in shaping a greener future. The demand for innovative sustainable building materials is steadily increasing, driven by the imperative to reduce environmental impact, enhance resource efficiency, and mitigate climate change. This Special Issue (SI) intends to collect and expand on research in the field of sustainable building materials, delving into their characteristics, advantages, and potential applications. The SI will include papers on the following research topics:

- Reused, recovered, and recycled materials
- Bio-based materials
- Advanced composites
- Environmental performance of building materials, considering their embodied energy, carbon footprint, recyclability
- Possible detrimental effects of conventional construction materials on the environment
- Technical attributes of sustainable building materials, including their strength, durability, acoustic and thermal properties, suitability for different applications
- Economic aspects of sustainable building materials
- Circular materials for a circular economy and built environment

### Guest Editors

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### Deadline for manuscript submissions

closed (20 February 2025)



## Materials

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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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### Editor-in-Chief

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