

## Special Issue

# Sustainable Cementitious Materials for Civil and Transportation Engineering—2nd Edition

### Message from the Guest Editor

The development of low-carbon construction materials has been recognized as a means of reducing the carbon footprint of the Portland cement and concrete industry, in response to growing global concerns over natural materials shortage and CO<sub>2</sub> emissions from the construction sector. The concrete and cement industry has been under pressure to shift towards sustainability by developing alternative low-carbon cement and concrete materials. The purpose of this special issue is to focus on state-of-the-art progress, developments, and new trends on the physical and chemical mechanisms, fresh and harden properties, long term performance and durability of sustainable cementitious materials with low carbon emissions for civil and transportation engineering. Both original research and review articles are welcome. In particular, the topics of interest include but are not limited to:

- Low carbon cementitious binders
- Carbonation enhanced concrete
- alkali-activated materials or geopolymers
- Recycled aggregate concrete
- Green admixtures for cement and concrete
- Long-term performance or durability of low-carbon concrete

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### Guest Editor

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### Deadline for manuscript submissions

30 August 2026



## Materials

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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.

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### Editor-in-Chief

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