

## Special Issue

# Advances in Modern Cement-Based Materials for Composite Structures

### Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: Material-Specific Applications

- UHPC-infilled steel columns under cyclic loading;
- Shear stud behavior in fiber-reinforced concrete slabs;
- Bond-slip mechanisms in recycled aggregate CFST.

#### Structural Performance

- Desert sand concrete in composite deck systems;
- Corrosion protection strategies for SSC hybrid joints;
- Fire resistance in LWAC composite walls.

#### Design Innovation

- Standardization gaps for novel material combinations;
- Digital tools for hybrid structure optimization;
- Circular economy approaches for composite demolition.

We look forward to receiving your contributions.

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### Guest Editors

Prof. Dr. Faxing Ding

1. School of Civil Engineering, Central South University, Changsha 410075, China

2. Engineering Technology Research Center for Prefabricated Construction Industrialization of Hunan Province, Changsha 410075, China

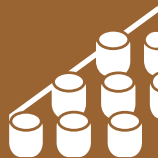
Dr. Fei Lyu

School of Civil Engineering, Central South University, Changsha 410075, China

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### Deadline for manuscript submissions

20 November 2025



## Materials

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

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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

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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