

Special Issue

Reinforced Concrete: Mechanical Properties and Materials Design

Message from the Guest Editors

We are pleased to invite you to this Special Issue addressing critical advances in reinforced concrete. With rapid urbanization and climate challenges, innovative solutions for durable and sustainable concrete infrastructure have become globally imperative. This Special Issue aims to consolidate cutting-edge research on mechanics-based design approaches for reinforced concrete structures. The topic directly aligns with the journal's scope of advanced construction materials. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- High-performance concrete fracture mechanics.
- Corrosion-resistant reinforcement technologies.
- Seismic resilience design methodologies.
- Digital twin applications in structural health monitoring.
- Life-cycle assessment of sustainable concrete systems.
- Seawater sea-sand concrete.
- Compression casting concrete.

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Zhi Ge

School of Qilu Transportation, Shandong University, Jinan 250002, China

Prof. Dr. Feng Zhang

School of Qilu Transportation, Shandong University, Jinan 250002, China

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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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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.

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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