



High Performance and Advanced Construction Materials

Guest Editor:

Prof. Dr. Tamer El Maaddawy

Department of Civil and
Environmental Engineering, UAE
University, Al Ain P.O. Box 15551,
United Arab Emirates

Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editor

Practicing environmental sustainability in the construction industry involves the use of recycled materials to reduce the demand for natural resources, innovative cement-free materials to reduce CO₂ emissions, and high performance corrosion-resistant materials to reduce repair cycles, prolong service lives, and reduce operational costs.

The aim of this Special Issue is to bring together the state-of-the-art research related to the use of high performance and advanced materials for sustainable construction. It covers the development, characterization, applications, and performance evaluation of a wide range of advanced construction materials. The scope of this Special Issue includes, but is not limited to, the following topics:

- Recycled construction materials
- Self-healing bio-concrete
- Alkali-activated construction materials
- Geopolymer-based composites
- Fiber-reinforced concrete
- Durability of construction materials
- Repair and retrofitting of structures with advanced materials
- High performance construction materials
- Life cycle assessment





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
X@Sus_MDPI