



Concrete and Waste Management for Sustainable Construction: Challenges and Opportunities

Guest Editors:

Dr. Hilal El-Hassan

Department of Civil and
Environmental Engineering,
United Arab Emirates University,
Al Ain, United Arab Emirates

Prof. Dr. Jamal Khatib

1. Faculty of Engineering, Beirut
Arab University, Beirut, Lebanon
2. Faculty of Science and
Engineering, University of
Wolverhampton,
Wolverhampton, UK

Deadline for manuscript
submissions:

31 October 2024

Message from the Guest Editors

This Special Issue welcomes original articles, review articles, and case studies that address the challenges and opportunities of using concrete and managing industrial wastes in a sustainable manner. Its goal is to provide readers with insights into the latest state-of-the-art research and practices related to sustainable construction. Research areas for consideration in this Special Issue may include, but are not limited to:

- Waste-derived mortar and composites;
- Classification, processing, and management of industrial wastes;
- Concrete made with recycled waste materials;
- Alkali-activated materials and geopolymer composites;
- Novel and waste materials in construction;
- Bio-materials in construction;
- Novel design and applications in construction;
- Efficient use of construction materials including lightweight materials;
- Recycled fiber-reinforced concrete and composites;
- Microstructure evaluation of waste-derived products;
- Industrial practices for sustainable waste management;
- Use of 4Rs in construction;
- Lean construction;
- Cleaner production and 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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)