

## Special Issue

# Innovations in Cementitious Materials Towards Carbon Emissions Reduction

### Message from the Guest Editor

In the dynamic landscape of construction materials, the synergy of innovations, sustainability, and carbon emission reduction is paramount. Therefore, researchers and engineers are invited to share their insights and novel approaches to enhance the performance of cement-based materials while minimizing environmental impact. This special issue is dedicated to the dissemination of original research and review on the materials science of cement and other mineral binders. In line with traditional Portland cement, the sustainability drives to explore novel binding materials, alternative raw materials as cement precursors, sustainable additives, and fillers that modify cement properties, enhance performance, and divert waste from landfills. Chemical and microstructural characterization of hydrated systems including innovations in self-healing mechanisms, crack propagation minimization through the tailoring of microstructure, pore refinement, and crystal growth; processes of degradation of cementitious materials; material properties, durability aspects contributing to the sustainable longevity of cementitious binding materials form the major themes of this special issue.

### Guest Editor

Dr. Regina Kalpokaitė-Dičkuvienė

Laboratory of Materials Research & Testing, Lithuanian Energy Institute, Breslaujos St.3, 44403 Kaunas, Lithuania

### Deadline for manuscript submissions

closed (5 March 2026)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/198579](https://mdpi.com/si/198579)

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

[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)



# About the Journal

## 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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

---

## Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

---

## 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, RePEc, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)