

## Special Issue

# Advanced Concrete and Construction Materials

### Message from the Guest Editors

Recently, new types of “advanced concretes” have been developed by improving the microstructure using alternative binders to traditional Portland cement as well as advanced ad-hoc materials and activators in terms of durability, safety, and overall environmental impact. New sustainable cementitious materials, such as alkali-activated binders (AABs) and calcium sulphoaluminate cement, have been investigated and developed to mitigate the environmental impact during the service life of structures. However, further studies are still required related to the optimization and standardization of mix designs for advanced cementitious composites, based on their specifications.

Among the main aims of this Special Issue are the modification, characterization, modeling, and recycling of concrete to improve sustainability, mechanical properties, durability, as well as the development of new concretes and the study of their properties and features.

---

### Guest Editors

Dr. Mahdi Kioumarsi

Department of Built Environment, Oslo Metropolitan University, Oslo, Norway

Dr. Vagelis Plevris

Department of Civil and Environmental Engineering, Qatar University, Doha P.O. Box 2713, Qatar

---

### Deadline for manuscript submissions

closed (31 January 2024)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/83693](https://mdpi.com/si/83693)

*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)