



an Open Access Journal by MDPI

## Carbon Peaking and Carbon Neutrality in the Cement-Based Materials

Guest Editors:

**Prof. Dr. Xiaoyong Wang**

Department of Architectural  
Engineering, Kangwon National  
University, Chuncheon-si 24341,  
Republic of Korea

**Dr. Run-Sheng Lin**

Department of Architectural  
Engineering, Kangwon National  
University, Chuncheon-si 24341,  
Republic of Korea

Deadline for manuscript  
submissions:

**closed (20 May 2023)**

### Message from the Guest Editors

Dear colleagues,

The purpose of this Special Issue is to provide an exchange platform on carbon peaking and carbon neutrality in the cement and concrete industries. This Special Issue welcomes research papers and review papers. Possible research topics include, but are not limited to, the following:

- Low-carbon cement and concrete;
- Magnesia-based cement;
- Alkali activated cement and concrete;
- Mineral admixtures;
- Carbonation curing of concrete;
- Carbon capture;
- Carbon sequestration;
- Energy-saving and emission reduction in cement production;
- Material design considering CO<sub>2</sub> emission;
- Recycled aggregate concrete;
- Durability and sustainability.

Dr. Xiao Yong Wang

Dr. Run-Sheng Lin

*Guest Editors*





an Open Access Journal by MDPI

## 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

## 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.

## Author Benefits

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

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

## Contact Us

*Materials* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)