

## Special Issue

# Testing of Cement-Based Materials

### Message from the Guest Editor

Concrete is the most consumed engineering material and has been used for more than 100 years. The application of the standard test methods is important for its quality control and performance evaluation.

Advances in cement-based materials (e.g., high-performance concrete; high-strength concrete; self-consolidating concrete; fiber-reinforced cementitious composites; pervious concrete; low carbon concrete; and others) have brought the development of novel test methods to evaluate their enhanced performances and material characterization. The test results and analysis for the new cement-based materials are also of interest in accompany with the test methods.

On the other hand, the technological advancement of the material characterization allows us to deeply understand the microstructure and behavior of cement-based materials. The characterization technology includes, but is not limited to, nanotechnology, rheological evaluation, nondestructive testing, and the multiphysics approach. The field is rapidly advancing into new areas of discovery.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcomed.

---

### Guest Editor

Prof. Dr. Jae Hong Kim

Korea Advanced Institute of Science and Technology, Daejeon, Korea

---

### Deadline for manuscript submissions

closed (30 April 2020)



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/22197](https://mdpi.com/si/22197)

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

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





# Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



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



## About the Journal

### 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.

---

### 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

---

### 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)