# Special Issue

# Advanced Fiber-Reinforced Concrete Composites

### Message from the Guest Editor

Fiber-reinforced concrete is recognized as a high-performance construction material because of its high toughness levels under compressive and tensile loads. Therefore, it is widely used in high-rise buildings, tunnels, bridges, and pre-cast structures. Societal demands have increased the need for advanced fiber-reinforced concrete composites with ultra-high performance or multifunctionality, such as self-healing, self-sensing, self-cleaning, and self-regulating. This Special Issue focuses on the emerging concepts that allow the design of new or improved fiber-reinforced concrete composites, as well as on the characterization of the properties of advanced fiber-reinforced concrete composites. Potential topics include, but are not limited to:

- Advanced and multifunctional fiber-reinforced concrete composites
- Ultra-high-performance fiber-reinforced concretes
- Advanced fiber-reinforced cement-free composites
- Nano-fiber-reinforced concrete composites
- Characterization of properties
- Strain-hardening behavior
- Multiple microcracks
- Fiber-bridging behavior
- Structural application of advanced fiber-reinfoced concrete composites

### Guest Editor

Prof. Dr. Bang Yeon Lee

School of Architecture, Chonnam National University, 77 Yongbong-ro, Buk-gu, Gwangju 61186, Korea

### Deadline for manuscript submissions

closed (15 July 2021)

**Materials**

**an Open Access Journal by MDPI**

**Impact Factor 3.2**
**CiteScore 6.4**
**Indexed in PubMed**

mdpi.com/si/26505

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

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

MDPI

# 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)