Special Issue

Development and Characterization of Novel Cement Materials

Message from the Guest Editor

This Special Issue aims to publish papers including the field of development and properties of novel cement and concrete through structure characterization. Means or enhanced insights into the behavior characterization of novel cementitious materials, e.g., low carbon cement, alkali-activated materials, geopolymer, and magnesium phosphate cement behavior, should be obtained through the experimental investigation or already published data. The scope includes:

- Preparation, mix design, and application of novel cement concrete;
- Rheology of fresh novel cementitious materials;
- Mechanical properties of hardened materials;
- Hydration characterization and analysis of novel cement concrete;
- Long-term properties;
- Microstructure development and modeling.

Novel cement is an important alternative that increases the flexibility and application of Portland cement. Scientists and engineers should be aware that the materials used to provide additional capabilities of novel cement concrete are not the same as Portland cement.

Guest Editor

Dr. Shuping Wang

College of Materials Science and Engineering, Chongqing University, Chongqing 400045, China

Deadline for manuscript submissions

closed (10 December 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/121546

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

mdpi.com/journal/materials

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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

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