Special Issue

Polymer in/on Concrete

Message from the Guest Editor

Cement-based materials have become predominant construction materials worldwide. Compared to other construction materials, the relative share of polymers is significantly lower. However, the available data indicate a steady increase in the use of various types of polymers and polymer–concrete composites, especially for the repair and protection of concrete structures. Recently, the scope of application of polymers in concrete and on concrete is enlarged significantly from the modification of the composition of the concrete using modern admixtures and additives, through alternative binders, polymer composites for the reinforcement of concrete, improvement of the properties of the concrete surface to special properties like self-healing, self-cleaning. Merging the cement concrete and polymers also opens the possibility of synergetic effects that support sustainable material development in construction. The progress of methods of material microstructure characterization, a computational science approach, including compatibility issues as well as non-destructive methods are useful for modeling the performance properties of concrete modified with polymers.

Guest Editor

Prof. Dr. Andrzej Garbacz

Faculty of Civil Engineering, Warsaw University of Technology, Warsaw, Poland

Deadline for manuscript submissions

closed (20 September 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/23540

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)