



Advanced Materials and Nanotechnologies in Building Composites

Guest Editor:

Prof. Dr. Jiří Němeček

Department of Mechanics,
Faculty of Civil Engineering,
Czech Technical University in
Prague, 166 29 Prague, Czech
Republic

jjiri.nemecek@fsv.cvut.cz

Deadline for manuscript
submissions:

20 July 2023

Message from the Guest Editor

Dear Colleagues,

The development of nanotechnologies in recent years has influenced the sphere of building materials on a large scale. Characterization of small volumes of material using techniques, such as SEM, FIB, AFM, micro-CT, NMR, nanoindentation, and others, has enabled the acquisition of unique data on the microstructure of composite building materials and opened the way to modify these materials, improve their properties, and quantify new properties.

The Special Issue will gather contributions that describe new approaches and the latest achievements and advances in the application of nanotechnologies, advances in the characterization of material nanolevel, or nanomodifications of building materials. Bulk, surface, fresh mixture, or hardened state applications are of interest. The Special Issue welcomes research articles and reviews on relevant topics. It is my pleasure to invite you to contribute to this Special Issue.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

James McGill Professor,
Professor of Biomedical
Engineering, Professor of
Bioengineering, Professor of
Experimental Surgery,
Department of Biomedical
Engineering, Faculty of
Medicine/Faculty of Dentistry,
Duff Medical Science Building,
3775 University Street, Montreal,
QC H3A 2B4, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-four topics: biomaterials, energy materials, advanced composites, structure analysis and 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, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its 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 - Q1 \(Metallurgy & Metallurgical Engineering\)](#) / [CiteScore - Q2 \(Condensed Matter Physics\)](#)

Contact Us

Materials
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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