







an Open Access Journal by MDPI

Research and Development of Modified Building Materials

Guest Editor:

Prof. Maria Stefanidou

Civil Engineering Department, Aristotle University of Thessaloniki Polytechnic School, 54124 Thessaloniki, Greece

Deadline for manuscript submissions:

closed (10 November 2022)

Message from the Guest Editor

Dear Colleagues,

Materials scientists study traditional materials and building technology with the aim to learn, transfer knowledge, and advance it. Additionally, newly developed cement-based materials are evolving in order to fulfil the requirements needed for construction. Composites and modified materials are using nanotechnology and alkali-activated mechanisms as well as reactive additives in order to improve their durability and address their inherent weaknesess. Cheap, easy-to-find, environmentally friendly, and effective additives can improve the insulation and consistency of composite materials, influencing fresh and hardened properties. Modified coatings can improve properties such as hydrophobicity, roughness, selfcleanliness, or even adhesion. Material modification can be achieved by different ways either within the structure or by elaborating their surface. Nevertheless, the aim is to produce durable materials with innovative properties able to solve complex structural problems.

Keywords

- cement
- lime
- bio-fibres
- additives
- coatings
- nano-modified
- alkali-activated













an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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.

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)

Contact Us