Special Issue

Novel High-Performance Building Materials and Structures

Message from the Guest Editor

High performance in buildings is achieved through a combination of the structure and material. Integrated research into topics such as the use of a variety of high-performance structural materials, including concrete, steel, fiber-reinforced cement, fiber-reinforced plastics, polymer materials, brick materials, and coatings to increase the performance of structures has helped to improve not only structural performance but also durability, resilience, and sustainability. The goal of the Special Issue is to cover research on, among others, traditional materials and high-performance materials used in buildings and different novel materials used in bridge structures. More specifically, some of the topics invited include: design of structures using high-performance materials; evaluation of seismic performance to experimentally characterize material performance; seismic retrofit and modular structure using different materials. Material experimental studies that improve the performance of structures are also welcome.

Guest Editor

Prof. Young Kyu Ju

School of Civil, Environmental & Architectural Engineering, Building Forensics Center, Korea University, 145 Anam Seongbuk, Seoul 02841, Korea

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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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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

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