Special Issue

Ceramics and Construction Materials

Message from the Guest Editor

Ceramics, along with cement, concrete, and steel are the most important and widely used construction materials. Functional properties and durability of these materials are concerns of great importance for their use in modern buildings and structures. The development of smart materials, such as hydroceramics or self-healing concrete, and of new production technologies, such as molding of bricks and/or concrete by 3D-printing, is laying the groundwork for a major transformation of the construction industry. However, considering the high energy costs involved with the production of ceramics and cement, great attention is being focused on so-called green or eco-friendly processes, e.g., those employing wastes or residues for producing new materials. This Special Issue invites original research contributions and reviews dealing with the recent advances in development, production, and characterization of ceramics and cement-based materials, including those obtained by eco-friendly processes, for use as construction materials with improved durability.

Guest Editor

Prof. Mangialardi Teresa

Department of Chemical Engineering Materials Environment, Università degli Studi di Roma La Sapienza, Rome, Italy

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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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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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