Special Issue

Material Modifications of High Performance Concrete Properties

Message from the Guest Editor

The purpose of this Special Issue is to present the latest concepts and research focused on developing the properties of fresh and hardened high performance concrete through material modifications. Of particular interest are articles focused on flexible modifications of concrete properties depending on the conditions of its casting and application, taking into account the implementation of sustainable development postulates.

For example, the research presented in this issue may cover the following topics: modification of the rheological properties of fresh concrete including self-compacting concrete, modification of the properties of fresh and hardened concrete for casting in special conditions (e.g., casting in summer or winter conditions, mass concrete casting), reduction of hazards resulting from thermal stress and shrinkage of concrete, improvement of concrete structure and its resistance to the corrosive effects of the environment, effects of mineral admixtures and additives, recycled materials, fiber-reinforced concrete, green concrete, etc.

Guest Editor

Prof. Dr. Jacek Gołaszewski
Faculty of Civil Engineering, Silesian University of Technology, Akademicka 5, 44-100 Gliwice, Poland

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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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