Special Issue

Material Science in Transportation and Construction Engineering

Message from the Guest Editor

The increase of the world population goes hand in hand with increased demands on the production of new materials, and the current linear model of the economy results in immense consumption of natural resources and dumping of pollutants at the end of materials' life cycle. Considering the environmental impact of the construction sector, the transition to a more efficient circular model of economics has ambitions to overcome these issues, including a decrease in energy consumption and pollutant emissions. In this sense, materials developed for transportation and construction engineering based on sustainability principles with improved performance are highly required. This Special Issue of Materials is aimed at current challenges in materials science, with a particular focus on transportation and construction engineering.

Research papers would ideally address the following topics:
Construction of infrastructure projects; Airports and highway pavement maintenance and performance; High-performance materials for construction; Green construction materials; Economic and environmental aspects of materials engineering.

Guest Editor

Dr. Jan Fořt

Department of Materials Engineering and Chemistry, Faculty of Civil Engineering, Czech Technical University in Prague, Prague, Czech Republic

Deadline for manuscript submissions

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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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