

Special Issue

Advanced Road Materials and Pavement Engineering: Design, Structure, Performance and Characterization

Message from the Guest Editors

In this Special Issue, we aim to introduce high-quality studies related to advanced functional materials and sustainable low-carbon materials in asphalt, concrete, or composite pavement. Research areas of interest include, but are not limited to, the following:

- Sustainable/recycled materials in asphalt, cement, and aggregates
- Innovative functional paving materials (including self-healing, de-icing, energy harvesting, or shape-memory materials);
- Advanced functional additives for asphalt or asphalt mixture (such as cellulose, polyester, aramid fibers, nano-silica, carbon nanotubes, styrene-butadiene rubber, anti-stripping agents, self-healing agents, or warm mix additives);
- Advanced functional additives for cement concrete (such as superplasticizers, shrinkage-reducing admixtures, corrosion inhibitors, or hydrophobic agents);
- Pavement and mixture design, mechanical properties, and performance prediction for advanced or sustainable pavement materials;
- Pavement evaluation, maintenance, and rehabilitation strategies (such as non-destructive tests, in situ instrumentations, or distress detection).

Guest Editors

Prof. Dr. Shihui Shen

Rail Transportation Engineering, Pennsylvania State University, Altoona,
PA 16803, USA

Dr. Cheng Zhang

Lyles School of Civil Engineering, Purdue University, West Lafayette, IN
47906, USA

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

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About the Journal

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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