



materials



an Open Access Journal by MDPI

High-Performance Structural Steel: Innovative Systems and Material Improvements

Guest Editor:

Dr. Alireza Farzampour

1. Department of Permitting,
Inspections and Enforcement,
Prince George County Permitting
& Licensing, Upper Marlboro, MD
20774, USA

2. Civil and Environmental
Engineering Department, Virginia
Tech College of Engineering,
Blacksburg, VA 24061, USA

Deadline for manuscript
submissions:

closed (10 August 2023)

Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to investigate advancements in high-performance steel structures from material to application considering all the possible fields of study: Performance evaluations of steel structures, optimized steel systems, high-temperature reactions, innovative steel lateral resisting systems, high-strength steels, steel rebars, fatigue analysis methodologies, additively manufactured steels, corrosion, application possibilities of new sustainable materials and methods, steel dampers, steel applications, and advanced materials behavior compared with steel. These subjects can be studied from different points of view: mechanical, microstructural, material modelling, steel design, performance analysis, etc. In summary, the present issue is open to all research pieces involving steel as a structural material in any of its applications, and from any of the possible technical or scientific perspectives.

Dr. Alireza Farzampour



mdpi.com/si/93983

Special Issue



an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)