Special Issue

Performance and Applications of Construction Materials and Structures

Message from the Guest Editor

Cement-based materials are essential to construction but very vulnerable to tensile forces. Therefore, much research has been done to improve the material and mechanical properties of cement-based materials. Currently, smart materials are being applied in civil engineering to increase the functionality and performance of construction materials and structures. Smart technologies combined with smart materials can realize damage recovery and repair, particularly after severe events, including earthquakes, windstorms, and explosions. In addition to these recent research trends in the development of construction materials, most countries have expressed concern about the aging of structures. However, it is challenging to properly evaluate the current state of structures and materials. It is my great pleasure to invite you to submit to this Special Issue a manuscript on any aspect of the development and applications of construction materials and structures, including smart materials and technologies, that may help us to further develop the technology used in civil engineering.

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

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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.

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