

Special Issue

Innovative Structures Made of High-Performance Materials

Message from the Guest Editors

The development of civil engineering structures is inseparable with the development of materials. Recently, the use of high-performance materials such as fiber-reinforced polymer (FRP), engineered cementitious composite (ECC), ultra-high-performance concrete (UHPC), high-strength steel (HSS) etc. has gradually increased in civil engineering. The application of high-performance materials in civil engineering benefits long-span and high-rise structures. To promote the application of high-performance materials in civil engineering, this Special Issue aims to provide the data, models, and tools necessary to assess the failure mechanisms, fatigue damage calculation, stability behavior, and durability of innovative structures made of high-performance materials. Researchers are invited to provide original research and review articles that seek accurate and efficient failure analysis, fatigue damage evaluation, bulking analysis, and long-term behavior prediction related to structures made of high-performance materials.

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Deadline for manuscript submissions

closed (20 November 2023)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/115383

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Message from the Editorial Board

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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