Special Issue

Strengthening and Rehabilitation of Concrete and Masonry Structures

Message from the Guest Editors

A large number of structures that provide essential services to the public and enable societal development are aging and are in dire need of rehabilitation or reconstruction. Structural rehabilitation offers multiple advantages over replacement including cost savings (in certain applications), less disruption to the structure's function, and a much lower environmental impact. The Special Issue aims to advance and disseminate knowledge on the rehabilitation of concrete and masonry structures. The scope of this SI includes, but is not limited to, rehabilitation materials and techniques (e.g., fiber reinforced polymer (FRP), textile reinforced mortar (TRM), steel, and ultra-high performance concrete (UHPC), shape memory alloy (SMA)), application type (e.g., flexure, shear, torsion, and axial confinement), bond and interfacial properties, durability and environmental effects, long term behavior, codes and standards, sustainable and green materials and systems, and seismic strengthening. Original articles that present experimental, numerical, or analytical investigations as well as emblematic case studies and state-of-the-art reviews are welcomed.

Guest Editors

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Deadline for manuscript submissions

closed (20 April 2024)

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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.

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