

Special Issue

Strength, Ductility and Durability of Strengthened or Repaired Reinforced Concrete or Masonry Structures

Message from the Guest Editor

Numerous existing reinforced concrete (RC) or masonry structures were deteriorated over time due to many factors, such as earthquakes, accidental impacts and damage to structural parts due to the aging of construction materials or fire damage, corrosion of steel reinforcements, and/or impact of vehicles. The many materials are used as strengthening or repairing materials include fibre-reinforced polymers (FRP), ultra-high performance fibre concrete (UHPC), shape memory alloys (SMA), fibre-based textile reinforced mortar (TRM) and vegetable fibres composite materials (VFC). Long-term durability is often stated as the main reason for using the aforementioned materials. However, their durability depends on the choice of constituent materials, the method and conditions of processing, and surrounding environmental conditions throughout their service lives.

This Special Issue aims to cover a wide array of subjects, from dealing with the strengthening and repair of RC and masonry structures. It will cover advanced strengthening materials. Special attention will be given to the ductility and durability of these strengthening systems.

Guest Editor

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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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