Special Issue

Advanced Materials and Techniques for Reinforced Concrete

Message from the Guest Editor

Infrastructure, the massive worldwide network of structures such as buildings, roads, and bridges, must meet both the social and economic demands of people. The current state of these infrastructures is concerning since many of them show clear evidence of severe deterioration. Retrofitting or strengthening treatments are necessary due to the multiple potential causes, which include material aging, corrosion, increased vehicle traffic, poor design, construction errors, or even a combination thereof. The benefits of fiber-reinforced polymers have made the repair and reinforcement of different structural components an efficient procedure and sometimes essential solution, particularly for damaged reinforced concrete beams that need to provide enough resistance and simplicity of maintenance. This Special Issue aims to provide a base for the most recent research and findings on creative methods for strengthening and retrofitting reinforced concrete structures with new eco-friendly and sustainable materials.

Guest Editor

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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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