

Special Issue

Mechanical Behavior of Concrete Materials and Structures: Experimental Evidence and Analytical Models

Message from the Guest Editors

The mechanical behavior of concrete and, even more, reinforced concrete has been a research theme tackled by many researchers through different approaches for years. Although the relevant literature is full of papers on this topic, ranging from experimental works to theoretical contributions, an accurate and comprehensive description of the actual mechanical behavior exhibited by concrete and reinforced concrete at service and ultimate conditions still remains a challenge in the field of structural engineering. This Special Issue aims to collect contributions that deal with the mechanical behavior of ordinary, prestressed and special concretes, including high-strength, lightweight, recycled, fiber-reinforced, and self-healing concretes, for both structural and non-structural applications. In particular, the desired topics include, but are not limited to, experimental findings, numerical approaches, and analytical models investigating the mechanical behavior of concrete, reinforced concrete and prestressed concrete members at service and/or ultimate conditions under different loading states, such as axial loads, bending, shear, torsion, or combined loading states.

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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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