

Special Issue

Durability and Safety of Concrete Structures

Message from the Guest Editors

The materials that compose building and civil structures can be degraded by a large set of factors, including environmental or engineering. The pathologies of concretes can manifest themselves in the appearance of cracks, pop outs, and even pieces to break off. Among the causes of the damage that may suffer are the corrosion of the reinforcements of the concrete due to the action of chlorides or carbonation, expansive reactions due to alkali–aggregate reactions, or reactions with sulphates, freeze/thaw cycles, mold and humidity, etc. This Special Issue includes research papers that study the durability of materials and their relationship with the safety of structures. Among others, the topics on which it will focus will be works that advance the study of the degradation of materials, test methodologies including NDT, practical cases of structure deteriorations, and repair and maintenance, as well as the modeling and simulation of processes of degradation and their influence on construction elements.

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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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