Special Issue

Innovative Materials for Construction

Message from the Guest Editors

Most of the typical materials employed in today's construction industry present limitations, especially with regard to their durability—in either common or severe environmental conditions—and their impact on the environment. In response to these issues, academic and industrial efforts around the world have been devoted to developing new smart materials that can provide efficient alternatives, improve energy efficiency in buildings, or upgrade, repair, and protect existing infrastructures. A new generation of materials (bricks, cement, coatings, concrete, FRP, glass, masonry, mortars, nanomaterials, PCM, polymers, steel, wood, etc.) is, in fact, gaining a prominent position in modern building technology, because such materials are able to overcome various limitations and flaws of the conventional materials employed in construction, without neglecting the smart applications of pioneering materials in ancient constructions and historic buildings. This Special Issue aims to provide a platform for discussing open issues, challenges, and achievements related to innovative materials proposed for use in the construction industry.

Guest Editors

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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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