

Special Issue

Novel Approaches in Concrete and Building Materials

Message from the Guest Editors

Today, concrete and other cement-based materials are one of the most widely used construction materials. Despite characteristics such as high mechanical strength, low cost, availability, and durability of concrete and cement-based materials, there are some issues associated with these materials that are the subject of current and/or future research. Efforts are being made to improve the aforementioned characteristics of these materials. While increases in compressive strength and durability and decreases in permeability and costs are being considered, at the same time, there is growing concern over the environmental impacts of these materials. A review of the literature demonstrates that, topics such as physical, mechanical, durability, economic and environmental characteristics of concrete and other cement-based materials have been increasingly considered by researchers. The present Special Issue pays particular attention to the utilization of AI-based hybrid approaches to achieve improved solutions.

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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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