Special Issue

Functional Cement-Based Composites for Civil Engineering (Volume II)

Message from the Guest Editor

Within the scope of this research topic, emphasis will be focused on fundamental, experimental, numerical, validation, and application research, inducing proven results in state-of-the-art solutions for sustainable construction. Various single-focused approaches or multidisciplinary combinations are also expected to add to the Special Issue. In general, traditionally, the most widely used construction and building materials are produced with Portland cement (PC); however, there have been some sustainability concerns as it is expensive to make and transport, and the manufacturing process is environmentally destructive, accounting for about 8% of global CO2 emissions. This has led to the use of several new sustainable alternative materials for PC replacement with significant benefits, to mitigate the environmental damage caused by PC. This Special Issue will also bring together techniques and concepts from various distinct works, to examine, explore, and critically engage with issues and advances in sustainable construction and building materials, that can provide several environmental benefits but also can lead to cost-effective products.

Guest Editor

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Deadline for manuscript submissions

closed (10 November 2024)

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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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