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

Guest Editor:

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Deadline for manuscript submissions:
closed (10 November 2024)

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 CO_2 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.

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