Special Issue

Applications of High-Performance Concrete in Construction

Message from the Guest Editor

In the dynamic realm of construction materials, High-Performance Concrete (HPC) has emerged as a versatile, influential player, including High-Strength and Light-Weight variants for various structural applications. Renowned for their robustness, these concretes uphold Structural Integrity. Sustainability has fueled HPC's evolution, aligning it with Green Construction Materials. Fiber-Reinforced Concrete bolsters resilience, while Self-Consolidating Concrete (SCC) streamlines construction for efficiency. Integrating HPC with 3D printing catalyzes material innovation and construction methods, reshaping conventions into eco-friendlier practices. Growing literature on technical aspects, including printing parameters, rheology, testing, and mechanical properties, ensures structural safety. Applied Sciences presents a special issue delving into HPC's multifaceted role in construction. We invite insights from researchers, engineers, and practitioners, fostering a sustainable, resilient, and innovative built environment.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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