

Special Issue

Emerging High-Performance Fiber-Reinforced Cement-Based Composites

Message from the Guest Editors

The brittleness of cementitious materials is their major limitation, making cementitious members vulnerable to seismic loading and impact, even with steel reinforcements. In addition, the formation and opening of cracks facilitate the penetration of water and chemicals which greatly affects the durability of the structure. To control cracking, fibers can be added to form fiber-reinforced cement-based composites (FRCCs); among these, research surrounding a number of high-performance composites has been emerging, including UHPCs, famous for their ultra-high strength, and ECCs, which transform the failure mode from quasi-brittle failure into strain-hardening behavior.

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