



Emerging High-Performance Fiber-Reinforced Cement-Based Composites

Guest Editors:

Prof. Dr. Cong Lu

School of Civil Engineering,
Southeast University, Nanjing,
China

Dr. Yiming Yao

School of Civil Engineering,
Southeast University, Nanjing,
China

Dr. Jiajia Zhou

School of Mechanics and Safety
Engineering, Zhengzhou
University, Zhengzhou 450001,
China

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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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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