



Carbon-Based Nanomaterials-Engineered Cementitious Composites

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Message from the Guest Editors

Dear Colleagues,

Cement concrete is the most widely used man-made material in civil engineering; however, its inherently quasi-brittle behaviour has limited its structural application. Over the past decade, advancements in nanotechnology and nanomaterials have provided invaluable opportunities to improve the microstructure of cementitious composites at the nanoscale. Although carbon-based nanomaterials (CNMs) demonstrate great potential in cement modification, their broad application is still limited due to their poor dispersion quality and the controversial understanding of the effects of CNMs on cement hydration. This Special Issue plans to give an overview of the most recent advances in CNMs-modified cementitious composites and provide selected contributions on advances in their development and applications. Potential topics include but are not limited to: cementitious composites; smart concrete; carbon-based nanomaterials; dispersion; cement hydration; durability; the role of nanomaterials in cementitious composites; and future perspectives for nanomaterials-modified cementitious composites.





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Message from the Editor-in-Chief

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