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Advanced Cement and Concrete Composites

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Message from the Guest Editor

Dear Colleagues,

The cement and concrete industry is the world's primary consumer of natural resources and a major contributor to greenhouse gas emissions. To mitigate climate change and the threat to biodiversity, we need to produce eco-efficient and highly durable cement and concrete composites that meet the ever-increasing demand for enhanced mechanical performance and resiliency. This Special Issue seeks novel and impactful research on: eco-efficient and sustainable cement and concrete; geopolymers and alkali-activated binders; self-healing, bio-inspired, multi-functional, stimuli-responsive, and other advanced and emerging engineered cement and concrete composites; pertinent studies on rheology, mechanical performance, and durability; life-cycle analysis studies; and numerical, artificial intelligence, and other modeling of cement and concrete composites.

Prof. Dr. Moncef L. Nehdi

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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