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New Advances in Cement and Concrete Research—2nd Edition

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Message from the Guest Editor

Dear Colleagues,

While a variety of chemical and mechanical phenomena in cement-based materials has been revealed, there are still challenges around sustainability and resilience. The aim of this Special Issues is to gather recent scientific progress on cement and concrete, particularly dedicated to cutting-edge techniques used for cement and concrete research that unveil new phenomena in those materials and possibly accommodate sustainability and extension of the service life of concrete structures. Specifically, this Special Issue encompasses experimental studies at the crossroads between chemistry, materials science and engineering, biology, and applied physics. Potential topics include but are not limited to the following: durability, material characterization, alkali-activated materials, UHPC, internal curing, cement-carbon nanocomposites, CO₂ sequestration, and sustainability. Furthermore, to compile comprehensive documentation, other potential studies on engineered cement and concrete, numerical studies, and sensing techniques for damage quantification are welcomed for publication in this Special Issue.



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Special Issue



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Message from the Editor-in-Chief

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