

## Special Issue

# Innovations in Cementitious Materials Towards Carbon Emissions Reduction

### Message from the Guest Editor

In the dynamic landscape of construction materials, the synergy of innovations, sustainability, and carbon emission reduction is paramount. Therefore, researchers and engineers are invited to share their insights and novel approaches to enhance the performance of cement-based materials while minimizing environmental impact. This special issue is dedicated to the dissemination of original research and review on the materials science of cement and other mineral binders. In line with traditional Portland cement, the sustainability drives to explore novel binding materials, alternative raw materials as cement precursors, sustainable additives, and fillers that modify cement properties, enhance performance, and divert waste from landfills. Chemical and microstructural characterization of hydrated systems including innovations in self-healing mechanisms, crack propagation minimization through the tailoring of microstructure, pore refinement, and crystal growth; processes of degradation of cementitious materials; material properties, durability aspects contributing to the sustainable longevity of cementitious binding materials form the major themes of this special issue.

### Guest Editor

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### Deadline for manuscript submissions

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## Sustainability

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