

Special Issue

Advances in Nanomaterials and Sustainable Additives for Cement-Based and Self-Healing Materials

Message from the Guest Editor

We invite researchers and experts to contribute to this Special Issue, entitled "Advances in Nanomaterials for Cement-Based and Self-Healing Materials." This Special Issue aims to explore cutting-edge research and innovations at the intersection of nanotechnology and construction materials, specifically emphasizing cement-based materials and self-healing capabilities. Topics of interest include, but are not limited to, the following:

- Nanomaterials for enhancing the mechanical properties of cement-based composites.
- Nano-reinforcements and their impact on the durability and longevity of construction materials.
- Self-healing mechanisms facilitated by nanomaterials in cementitious systems.
- Nano-modification of cementitious binders for improved resistance to environmental factors.
- Smart sensors and monitoring systems employing nanotechnology for structural health assessment in cement-based structures.
- Innovations in synthesizing and applying nanomaterials for sustainable and eco-friendly construction practices.
- Case studies demonstrating successful implementation of nanotechnology in real-world construction projects.

Guest Editor

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Deadline for manuscript submissions

closed (15 March 2025)



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Editor-in-Chief

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