Special Issue

Nanocomposite Modified Cement and Concrete

Message from the Guest Editor

Nanomodified cementitious materials exhibit unique structural and functional properties that have garnered significant attention in recent years. Notably, these advanced materials are increasingly being utilized in innovative technologies and applications, particularly in construction and environmental engineering. We invite authors to contribute original research articles exploring the fundamental and applied aspects of nanomodified cementitious materials, including the effects of nanoscale additives on mechanical strength, durability, self-healing, photocatalytic properties, and resistance to environmental degradation. Topics of interest include the incorporation of nanoparticles, nanofibers, and nanocomposites, as well as their impact on microstructure, hydration processes, and multifunctional performance. Both theoretical and experimental contributions are welcome. The aim of this issue is to provide a comprehensive overview of the current advancements in the development and application of nanomodified cementitious materials, highlighting their potential to revolutionize the construction industry and address pressing environmental challenges.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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