

Special Issue

Effects of Adding Cement Admixtures on the Microstructure and Properties of Cement Materials

Message from the Guest Editors

Cement, as the most widely used construction material, is often influenced by the addition of various additives, which can greatly improve its performance. With the increasing interest in additives, there have been significant advancements in the hydration process and microstructure of cement. Additives play a crucial role in the production and utilization of modern cement. They can be utilized to meet diverse requirements, such as enhancing the strength of cement and concrete, adjusting the setting time of cement, and controlling the water requirements of concrete. In addition to these performance benefits, additives also contribute to reducing production costs and minimizing adverse environmental impacts. This Special Issue aims to gather research papers and review articles that address the challenges associated with the application of additives in cement and concrete materials. We welcome research papers focusing on numerical simulations of additives, as well as manuscripts presenting experimental verification.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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