

Special Issue

Microstructure and Properties of Sustainable Cement and Concrete

Message from the Guest Editor

This Special Issue aims to collate high-quality research on the relationship between the microstructure and properties of sustainable cement and concrete. Topics of interest include, but are not limited to, the following: the reaction mechanisms and hydration evolution of low-carbon binders; the influence of industrial by-products and recycled aggregates on microstructural development, pore structure, and interfacial transition zone; the role of nano- and micro-scale additives in modifying the microstructure and enhancing mechanical and durability properties; the coupling effects of multi-scale reinforcement systems on toughness, shrinkage, and cracking resistance; and the impact of curing conditions and environmental exposure on the microstructural stability and performance of sustainable concrete. We welcome the submission of original research papers, review articles, and short communications that address microstructure–property relationships in sustainable cement and concrete and contribute to our understanding and design of green construction materials.

Guest Editor

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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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