Special Issue

New Advances in Cement and Concrete Research—2nd Edition

Message from the Guest Editor

While a variety of chemical and mechanical phenomena in cement-based materials has been revealed, there are still challenges around sustainability and resilience. The aim of this Special Issues is to gather recent scientific progress on cement and concrete, particularly dedicated to cutting-edge techniques used for cement and concrete research that unveil new phenomena in those materials and possibly accommodate sustainability and extension of the service life of concrete structures. Specifically, this Special Issue encompasses experimental studies at the crossroads between chemistry, materials science and engineering, biology, and applied physics. Potential topics include but are not limited to the following: durability, material characterization, alkali-activated materials, UHPC, internal curing, cement–carbon nanocomposites, CO2 sequestration, and sustainability. Furthermore, to compile comprehensive documentation, other potential studies on engineered cement and concrete, numerical studies, and sensing techniques for damage quantification are welcomed for publication in this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (20 February 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/175650

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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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