

Special Issue

Synthesis, Performance and Applications of Cementitious Materials

Message from the Guest Editors

This Special Issue focuses on the design of novel cementitious materials through advanced synthesis methods and processes, including chemical activation, low-temperature preparation, nanomodification, and resource utilization of solid waste. We anticipate that the research will not only uncover the formation mechanisms and evolution law—from microstructure to macroscopic performance—but also delve into the durability, intelligent response characteristics, and optimization of mechanical properties under extreme environmental conditions. Topics include, but are not limited to, the following:

- Synthesis and preparation processes of novel cementitious materials.
- Green development and sustainability of cementitious materials.
- Development and application of intelligent and functional cementitious materials.
- Structure-performance relationships of cementitious materials at both micro and macro scales.
- Mechanical property enhancement and optimization design of cementitious materials.
- Durability and long-term performance of cement-based materials in harsh environments.

Guest Editors

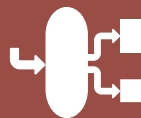
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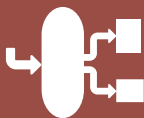


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Editor-in-Chief

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