Special Issue

Cement-Based Materials for Infrastructure

Message from the Guest Editors

The continued use of cement-based materials in infrastructure faces two critical 21st century challenges: sustainability and resilience. The cement industry is a primary source of anthropogenic CO2, demanding urgent solutions for decarbonization. Simultaneously, our aging infrastructure requires enhanced durability and resilience against the increasing impacts of climate change, extreme weather events, and growing service loads.

This Special Issue aims to collate cutting-edge research addressing these pressing issues. We invite high-quality original research and review articles on topics including, but not limited to, the following:

Advanced concrete admixtures and chemical technologies;
Low-carbon and alternative binders;
The circular economy: the use of recycled and waste materials in concrete;
Durability mechanics and service life prediction in aggressive environments;
Ultra-High-Performance Concrete (UHPC) and innovative composites;
Advanced repair/strengthening materials and techniques;
Lifecycle assessment (LCA) and sustainability frameworks for infrastructure.

Guest Editors

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