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Engineered Supplementary Cementitious Material-Based Mortar/Concrete with Enhanced Mechanical and Durability Performance

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Deadline for manuscript submissions:

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Message from the Guest Editors

Dear Colleagues,

With the increasing energy demand and carbon footprint from the production of cement, it is imperative to develop cement-based mixes. which are environmentally friendly, and have enhanced engineering properties compared to conventional cement-based materials. Supplementary cementitious materials (SCMs) make a viable option as full or partial substitutes for cement clinkers. However, mixes incorporating SCMs must be engineered to produce mortar/concrete with enhanced properties even at high-volume substitution with a clear experimental description of the mechanisms involved. This Special Issue seeks to publish research findings on mortar/concrete with enhanced engineering properties with a significantly low carbon footprint through the use of SCMs (agricultural waste, industrial waste, and natural pozzolans).

Keywords

- supplementary cementitious materials
- characterization
- fresh properties
- rheology
- mechanical properties
- durability, microstructure



Specialsue







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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network

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