

Special Issue

Durability and Performance of Sustainable Construction and Building Materials

Message from the Guest Editors

Construction and building materials still significantly influence the environment because of the consumption of energy and raw materials, as well as the CO₂ gas emissions when producing cement, which is the primary binder of concrete. The sustainable use of resources to produce more eco-friendly cementitious materials has become a trend. With the awareness of global warming and the optimal use of resources, research on alternative binders including new cement types using secondary raw materials and the utilization of novel binders using industrial by-products such as geopolymers or alkali-activated materials, are considered the cornerstone of sustainability in construction materials. This Special Issue aims to reflect the current state-of-the-art and new developments on the relevant topics in the research field of the durability and performance of classical and new binder systems. We expect a wide range of contributions from interdisciplinary, multiscale, and different approaches to addressing various durability aspects, which will provide a comprehensive background for material engineers, researchers, and experts in the field.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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