



Recent Progress in Sustainability and Durability of Concrete and Mortar Composites

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Message from the Guest Editors

Dear Colleagues,

In civil engineering, the performance of structures is closely related to the performance of the construction materials, either in terms of strength or durability. After water, concrete is the second most used material worldwide and definitely one of the most versatile construction materials for structural applications. Another frequently met category of materials is those used for finishes and repair works, among which mortar is by far the material of choice in all its diversity in terms of composition and fields of application. The ideal construction material should possess high strength yet be flexible, should have a high durability and, at the same time, not harm the environment at all. It is our pleasure to invite you to submit your research works addressing the topic of this Special Issue.

- concrete and mortar design
- component materials of composites
- cement construction materials
- supplementary cementitious and alkali-activated materials
- nanomaterials
- reinforced concrete/mortar properties
- self-healing materials
- eco-efficient cementitious composites
- low carbon footprint
- life cycle
- nondestructive testing
- asphalt concrete





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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