



Sustainable Cementitious Materials for the Construction Industry

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Message from the Guest Editors

Dear Colleagues,

The construction industry plays a central role in efforts towards achieving a sustainable development, because of its size and ubiquity. Concrete is the most-used construction material, both for residential buildings and infrastructure. Portland cement production is an industrial sector, which, despite being a high contributor to CO₂ emissions, has made significant efforts towards sustainability by increasing energy efficiency, using alternative or renewable fuels, and by replacing considerable proportions of clinker with supplementary cementitious materials. These latter are termed "additions to cement" and include fly ash, blast furnace slag, silica fume, natural volcanic pozzolanic materials, rice husk ash, limestone powder, calcined clays, etc. Many of these additions are wastes or by-products of other industries, thus leading to a double benefit in terms of sustainability, since they reduce the emission of greenhouse gases and reduce waste treating and disposal needs.





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