Special Issue

Emerging Construction Materials and Sustainable Infrastructure

Message from the Guest Editors

Currently, concrete is the most common construction material used in infrastructure. However, it is estimated that concrete products represent at least five percent of humanity's carbon footprint from CO2 emissions. Additionally, concrete infrastructure, such as bridges, marine structures for coastal defense, and off-shore renewable, suffer from premature aging, rapid deterioration, structural deficiency, and the safe management of risk. The objective of this Special Issue is to focus on emerging, lower energy and durable construction materials for use in civil infrastructure, such as "green" concrete products, maximizing the inclusion of waste products combined with corrosion-resistant reinforcing materials. This Special Issue will also deal with the interplay between material microstructure, physical properties processing and performance of emerging construction materials.

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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.

Editor-in-Chief

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