

Special Issue

Sustainable Construction Materials and Technologies

Message from the Guest Editors

Sustainable construction materials and technologies have become so important now that researchers in the field of civil engineering and building materials with a view to conserving the environment through the reduction of carbon footprint and enhancing solid waste valorization. Many agro-base materials such as palm fuel ash, rice husk, sugarcane bagasse and mineral tailings among others have been reported in the literature as supplementary cementation materials. Despite these studies, there are many emerging materials that are not only biodegradable but also compatible with concrete and mortar production. These materials have the propensity to give relevant properties such as insulation, aesthetics, strength, and durability to concrete performance. Some of these materials are also plant-based such as cork, mycelium, and coffee wastes, and recyclable materials - papers, diapers, cobs, and polyurethane rigid foam. A proper understanding of these materials in terms of thermal, strength, durability, and microstructural characteristics has been very essential for safety, economic and public health purposes.

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Message from the Editor-in-Chief

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