



Innovative Construction Materials for Sustainable Development

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Message from the Guest Editors

Dear Colleagues,

The increase in the population density leads society to consume more, build more, and increase production and economic growth. The production of construction materials needs high amounts of energy and, together with that, gives rise to significant CO₂ emissions. Sustainability can be defined as a set of environmental, economic, and social conditions in which all society has the capacity to maintain and improve its quality of life without degrading the quantity, quality, or availability of natural, economic, and social resources. Given the significant growth in the field of civil engineering, the sustainability principle must be taken into consideration, particularly when producing materials. This requires a comprehensive assessment that takes into consideration human needs for life cycle assessment of construction materials (natural resources, industrial products, energy, transportation, housing, and efficient management of waste and materials) while conserving and protecting the quality of the environment and the natural resource base essential for future development.

Dr. Nassim Sebaibi

Guest Editor





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