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Eco-Design and New Inorganic-Based Composites in a More Sustainable Construction

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Message from the Guest Editors

Dear Colleagues,

In recent decades, the construction sector has attempted to respond to the socioeconomic changes experienced in society, contributing to the Sustainable Development Goals (SDG) promoted by the United Nations. Scientific and research community has focused its efforts on the development and innovation of “eco-design” tools and inorganic-based composites that reduce energy consumption and CO₂ emissions from the construction. This is in addition to moving toward a “zero waste” construction in which the structural and durable safety of structures in the field of civil engineering and building is not compromised.

The main topics of interest in this Special Volume will be i) life cycle analysis of the new composites; ii) new practices in the eco-design of buildings; iii) new raw materials from industrial by-products applied in construction; iv) cements with low clinker content based on industrial and agroforestry waste; v) durable behavior of new composites; vi) “smart” composites with self-healing properties; and vii) building information modeling (BIM) in construction projects.





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Message from the Editor-in-Chief

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