Special Issue

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

Message from the Guest Editors

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

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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