Special Issue

Novel and Sustainable Civil Engineering Materials: Eco-Design, Properties and New Processing

Message from the Guest Editors

In recent years, investigations focusing on nonconventional materials have been gaining attention in research, development and innovation. The main envisaged topics for the Special Issue are as follows: engineered vegetable and other natural fibers as reinforcing elements; alternative inorganic binders based on agricultural and industrial wastes; new secondary materials from waste in the manufacture of eco-concretes; processing and characterization of nonconventional cementitious composites; durable and robust housing solutions; low-embodied-energy constructive components and systems. There are two key aspects to be understood before real-scale utilization: Binders and concretes are considered an important source of research for this kind of application as they can be designed for partial or even total substitution of conventional ones; processing, characterization, durability studies and proper utilization of those new categories of materials. The papers will bring a complete overview of the main concepts and information needed for the development of innovative construction and the design of building components based on alternative materials and techniques.

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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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