Special Issue

Science and Technology for Silicate-Based Construction and Building Materials

Message from the Guest Editors

Given the rapidly deteriorating environmental status of the planet and the growing problem of waste and global warming, finding a sustainable solution is an emerging topic. One of the main problems to be actively addressed in the construction industry is the manufacturing processes that lead to multiple negative environmental impacts including CO2 emissions. The goal of this Special Issue is to highlight and optimize the use of alternative raw materials in the design of construction composites and to show changes introduced (mechanical strength, adhesion, dimensional stability, adsorption, thermal, dielectric and insulation properties, resistance to environmental attack) and performances of final building or construction products. The raw materials can be applied in either natural or altered states (activated, calcined, modified, nano). Special attention should be given to the materials and processes studied in the laboratory, and/or industry. Furthermore, studies aiming to decrease gases released during the production are welcomed.

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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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