Special Issue

Mechanical Characterization of Gypsum Composites

Message from the Guest Editors

Gypsum is a traditional material used as a building material, throughout the world, due to its great properties, such as good hydrothermal behavior and resistance to fire. Although gypsum has been used in construction since the Neolithic era, it was not until the end of the 20th century that researches started to work with gypsum composites as materials capable of responding to new needs in buildings. These "second generation" of plasters are produced by making additions to the gypsum, such additions include fibers, to reduce the fragility of the material, or chemical additives, to be able to apply the plaster with mechanical devices (tools). This third generation of gypsums is lighter and has better thermal performance, by incorporating cellular solids into their matrix or gypsums designed with circular economy criteria, using the gypsum matrix as a digester of waste from industry or agriculture. In addition, regenerative construction is currently enabling the development of new gypsum compounds, which aim to improve the health and wellbeing of building users.

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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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