Special Issue

Novel Lightweight Construction Composites from Agro-Materials and Wastes

Message from the Guest Editor

The common characteristic of lightweight composites: the thermal, and even acoustic, insulation ability related to their structure, can help to achieve nearly zero energy buildings. There are two ways to obtain lightweight insulating materials: create a porous structure or use lightweight components. The reuse of wastes or byproducts as raw materials in substitution of nonrenewable constituents offers an interesting alternative to meet the challenge of their elimination and solve an environmental problem. This Special Issue will provide readers with recent progress in lightweight construction composites with mineral or organic matrix obtained by upgrading local materials, wastes, or byproducts from agriculture or industries. Topics may be related to:

- The treatment of the local materials and wastes before their use;
- The development of the eco-composites;
- The thermal, mechanical, hygric, multi-scale characterization of the composites;
- The environmental behavior of the composites in relation to service life and end-of-life;
- The modeling and prediction of the properties of the composites.

Guest Editor

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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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