

Special Issue

Innovative Thermal Insulation Materials: Properties, Performance and Applications in Construction

Message from the Guest Editor

As the assembly of building structures exhibiting weak thermal behaviour is on the verge of extinction, it is essential to identify the key strategies and methodologies that allow us to succeed in this critical goal. In light of this necessity, and as the threat of climate change greatly influences our way of thinking, it seems that one of the most rational ways to enhance the thermal defensiveness of building envelopes is to use thermal insulation materials. This Special Issue's specific goal is to fill the knowledge gap about potential approaches to raising building shells' overall energy efficiency by reducing the exchange of heat through the use of thermal insulation materials. In addition, an in-depth analysis of insulating material performance is intended to be provided.

This Special Issue welcomes both original research articles and reviews. We look forward to receiving your valuable contributions.

Guest Editor

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About the Journal

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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