Special Issue

Eco-Friendly Materials for Energy Efficiency in Building and Devices

Message from the Guest Editors

The conversion of energy to work is the ultimate aim of all machines and devices. Sustainable energy sources are now of key importance in engineering practice aimed at minimizing losses and ensuring efficient conversion of primary energy to functional work. Energy consumption in buildings is primarily related to heating and cooling functions. Preventing losses are, therefore, directly related to effective insulations that thermally isolate the building. Material choices for insulation are usually targeted at achieving high thermal resistance. Therefore, in this Special Issue, we seek to address eco-friendly materials and devices to address strategies to achieve energy efficiency in buildings and devices. We welcome papers with an ecofriendly theme or approach that considers the choice of eco-friendly materials or designs in building construction, design, materials selection, and applications in engineering devices.

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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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