

Special Issue

Phase Change Materials for Thermal Energy Storage

Message from the Guest Editor

Phase change materials (PCM) are becoming more and more popular for their use in different thermal energy storage (TES) systems: in buildings for heating and cooling, cooling of electronic devices, batteries, biomedical and industrial processes, and concentrating solar power or solar cooling plants. These materials can store and release high amounts of energy by latent heat and reduce the size and weight of systems based on conventional materials. They can be also coupled with renewable energy-based systems or be used to shift the peak load. This Special Issue will publish the best research and review papers on the development and enhancement of PCMs, their testing at the lab or prototype scale, the development of dedicated numerical models, and more especially on their use in advanced applications. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

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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