Special Issue

Phase Change Material (PCM) 2017

Message from the Guest Editors

Phase change materials (PCM) have attracted the attention of researchers for their use in different thermal energy storage (TES) systems. These materials can store and release high amounts of energy in a reduced thermal range, making them suitable for implementation in multiple applications. Moreover, experimental tests at prototype scale are of crucial importance to analyze the performance of PCM use in a given application under laboratory or real conditions. Furthermore, numerical models play an important role to improve the design and control strategies of PCM units. Finally, the study of life cycle analyses of PCM systems have demonstrated that the use of appropriate TES systems using PCM can lead to less pollution in the environment and less CO2 emissions. Keywords: PCM; TES; Solar applications; Buildings; Industrial applications; Waste heat recovery; Materials development; Numerical modelling Dr. Alvaro de Gracia

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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