Special Issue

Solar Thermal Energy Conversion and Storage

Message from the Guest Editors

The purpose of this special issue is to collect interesting and original studies demonstrating the importance of solar thermal systems, and aims to address the newest and most promising developments of such systems. This special issue covers the state of the art of solar thermal energy research, development, application, measurement or policy, especially focusing on energy conversion and storage. Solar energy plays a crucial role in the transition currently underway towards a fully renewable energy system. Widespread applications of solar thermal energy cover the production of power and domestic hot water, space heating or cooling, drying/heating of agricultural products, thermal desalination, etc. However, due to intermittent nature of solar thermal energy, it is required to develop and implement efficient methods of storing energy including sensible, latent and thermos-chemical energy storage technologies. Also, due to low-grade energy density of solar thermal energy, variable methods of energy conversion including absorption, adsorption, desiccant system or moving heat from a low-temperature level to a high-temperature level need to be developed

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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