Special Issue

Thermal Energy Storage and Energy Conversion Technologies

Message from the Guest Editor

Thermal energy storage (TES), also known as heat storage systems, is a technology that accumulates energy when production exceeds demand so that the stored energy can be used later. The stored energy can be used at the user's request for heating and cooling applications or for power generation. TES systems are commonly seen in buildings and industrial processes. On the other hand, conversion and storage, such as solar and wind energy, helps to further increase the share of renewables in the energy mix. TES is becoming crucial for electricity storage in combination with solar power, whereby solar heat can be stored for electricity production when sunlight is absent. This is a special issue dedicated to recent advances in thermal energy storage and energy conversion technologies. All types of research approaches are equally acceptable: experimental, theoretical, computational, and their mixtures; papers can be both of fundamental and applied nature, including industrial case studies. Solutions for challenges surrounding clean energy solutions and cold chain technologies are also welcomed.

Guest Editor

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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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