Special Issue

Advanced Technologies for Compressed Air Energy Storage/Thermal Storage Systems

Message from the Guest Editor

Compressed air energy storage (CAES) systems and Thermal energy storage (TES) systems, as two major large-scale energy storage technologies, play an important role in peak clipping and valley filling of power systems, large-scale utilization of renewable energy, and development of distributed energy system. In order to address the issues to improve these two systems and to meet the large-scale utilization requirement in industry, it is necessary to focus on advanced technologies in material, components, system configuration, and evaluation of CAES and TES systems. This Special Issue encourages original contributions regarding recent developments and ideas in advanced technologies for CAES/TES systems. Potential topics include but are not limited to CAES technologies, TES technologies, components/material, dynamic analysis, system control, economic/ecological impact, renewable energy integration, distributed energy system integration, and power system integration.

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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