Special Issue

New Solar Collectors, Energy Storage, and Materials

Message from the Guest Editor

Solar plants have experienced a large diffusion in recent years as a renewable source of electric and thermal energy. Their components have been improved to increase their performance with respect to energy conversion effectiveness and energy storage efficiency. New materials have been tested and employed to produce the cells of photovoltaic panels and the heat exchange systems of thermal panels. New kinds of batteries have been introduced for electrical energy storage, and phase changing systems have been developed for thermal energy storage. Hybrid solar panels have been realized, which make available both electrical and thermal energy converted from the solar energy captured by the same surface, to increase the converted energy per unit of surface. Microtechnologies have been employed to produce more compact components. This Special Issue aims to present the latest advances in producing solar plants and to introduce the technologies most recently studied, paying particular attention to solar collectors, energy storage systems, and materials.

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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