Special Issue

Latest Research on Solar Thermal Systems

Message from the Guest Editors

Solar energy is a popular renewable energy resource. Two different technologies transform solar energy into useful energy: photovoltaics and solar thermal. The main advantages of photovoltaic technologies are their modularity and simplicity in terms of installation and deployment. The main disadvantages are the substantial footprint; the end product, electricity, cannot be easily and cheaply stored. The main advantages of solar thermal technologies are their direct potential applications; relatively benign environmental footprint; easy and cheap integration. The main disadvantages reside in their complexity of deployment. The purpose of the present issue is to collect the latest studies demonstrating the importance of solar thermal technologies in the Energy Transition. Topics include any research advancing the state of the art of all types of solar thermal technologies and systems, from low to high temperature and analyzing any relevant aspect of those systems, from technical to economical and to societal. They also include research on the hybridization of solar thermal with photovoltaics or any other renewable energy technologies.

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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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