

Special Issue

Efficient Solar Energy Conversion and Effective Energy Storage

Message from the Guest Editor

The Special Issue on "Efficient Solar Energy Conversion and Effective Energy Storage" aims to explore recent advancements and innovative approaches in harnessing and storing solar energy. As the demand for renewable energy sources intensifies, the efficient conversion of solar energy into usable power and its subsequent storage become critical components of a sustainable energy infrastructure. This Special Issue will cover a broad range of topics, including novel materials and technologies for photovoltaic cells, advancements in solar thermal systems, and cutting-edge methods for energy storage such as batteries, supercapacitors, and hydrogen storage. Contributions addressing the integration of solar energy systems with existing power grids and the optimization of energy storage solutions to enhance reliability and efficiency are particularly welcome. The goal is to provide a comprehensive overview of current research, facilitate the exchange of ideas, and promote the development of practical solutions for efficient solar energy conversion and storage.

Guest Editor

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About the Journal

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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