Special Issue

Solar Energy Harvesting, Storage and Application

Message from the Guest Editor

The associated PV modules, energy storage systems, MPPT techniques, DC–DC converters, and control methods are crucial in order to perform critical global targets in energy efficiency and fault tolerant operation. Topics of interest for publication include, but are not limited to, the following:

- Materials for highly efficient solar cells;
- PV systems: power and energy architectures, energy management, advanced control method under healthy and faulty conditions, and islanded PV systems;
- Energy storage for PV systems: batteries, electrochemical capacitors, super capacitors, and hybrid energy storage;
- Monitoring of aging and supervision of energy storage systems;
- Power electronics interface for PV systems and associated storage: DC–DC conversion, DC–AC inverters, design and control of emerging converters topologies, fault tolerant operation and diagnosis, reliability, power quality, and power density;
- Maximum power point tracking techniques;
- PV systems modeling and control: modeling and control including energy storage, methodologies, and application cases, including safety critical operation.

Guest Editor

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Deadline for manuscript submissions

closed (20 December 2019)

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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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