Special Issue

Photovoltaic Generation Systems and Power Conditioning

Message from the Guest Editors

Photovoltaic (PV) generation systems have had the highest new installed capacity during the last few years. At the end of 2019, the cumulative installed PV capacity reached 630 GW, with an extra 112 GW prognosed for 2020. Moreover, by 2024, the global cumulative PV capacity is estimated to reach 1500 GW. PV generation is going to become one of the most promising renewable energy sources to cover the increasing needs of electricity due to the incoming spread of transportation electrification. With this in mind, PV systems are still an important research field, covering topics focusing on diagnostics of PV panels up to the integration issues regarding large-scale PV power plants. This Special Issue, therefore, is more topical than ever. The topics of interest include but are not limited to: - Converter topologies for low power photovoltaics; - Converter topologies for high power photovoltaics; - Modulation and control techniques; - PV power plants with energy storage; - Ancillary services for grid-connected systems; - Optimization and MPPT techniques.

Guest Editors

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Deadline for manuscript submissions

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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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