Special Issue

PV System Design and Performance

Message from the Guest Editor

Dear colleagues, Photovoltaic (PV) solar technology has been rapidly and continuously growing in the past decades leading to ~300 GWp installed capacity globally, and this has led to enormous price reductions. The strength of the technology is its modular design, and PV power plants range from a few PV modules (~1 kWp) to millions (~250 MWp). Design of such systems depends on the scale level: residential systems are typically roof-based, either flat or tilted, while large systems allow to design for maximum annual yield but also require intricate electrical layouts with multiple inverters and connections to medium voltage transmission networks. Additionally, operation is scale dependent. This Special Issue solicits papers with original research and studies related to the above-mentioned topics, including, but not limited to, PV system design on residential and larger scales; methods for operational control and analysis; failure detection; performance analysis of systems; mapping performance differences; performance variability; degradation of systems and modules. Dr. Wilfried van Sark

Guest Editor

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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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