Special Issue

Modelling New Trends in Photovoltaics

Message from the Guest Editors

Nowadays photovoltaic (PV) grid parity is a reality in many countries of the world, while fuel parity is happening in those countries with high levels of solar irradiation. This trend has been driven by public subsidies given worldwide and by huge investments in the R&D. Nevertheless, the efficiency of PV plants can still be improved working both on their reliability and on new PV technologies. With reference to these latter, researchers are studying new materials (e.g. perovskite solar cells) and new technologies to capture more solar irradiation (e.g. bifacial PV modules). With reference to the system efficiency, researchers are studying the possibility to cover reservoir with PV fields on floating structures in order to limit the temperature losses and increase the albedo. New diagnostic strategies are also foreseen as a tool of paramount importance in order to increase the efficiency of PV systems. Among these, unmanned aerial vehicles (UAV) equipped with visible and infrared cameras are just an example of new tools used to obtain useful information regarding the performance of PV modules in big solar parks.

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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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