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Solar Photovoltaics and Solar Power Plants

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Message from the Guest Editors

Solar power plants are becoming increasingly important in decarbonizing the energy sector and are receiving much techno-econo-enviro-socio-policy attention. In this context, looking at recent advances in solar cell technologies, installation approaches, solar power plant types, and application-specific solar power plant designs would be interesting to make better-informed decisions for the emerging solar power market. Furthermore, a continued increase in the penetration of solar power plants could trigger multifaceted challenges that could hinder progress. Hence, this Special Issue focuses on developing and implementing solar power plants considering conflicts related to land and water use, long-term electrical and electronic waste generation, and performance issues due to various influential factors. Topics of interest include but are not limited to the following:

- Solar photovoltaics and thermal collectors;
- Thin-film solar cells; Polymer solar cells; Dye-sensitized solar cells; Perovskite solar cells;
- Theoretical modeling of DC and AC PV systems;
- Solar thermal power plants;
- Building-integrated photovoltaic installations;
- PV battery systems...



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Special Issue



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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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