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## Design and Analysis of Grid-Connected Photovoltaic Systems

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (30 April 2022)**

### Message from the Guest Editor

This Special Issue solicits papers with original research and studies related to the abovementioned grid-connected PV system topics, including but not limited to the design of residential and larger-scale plants; electricity storage; simulations and performance analyses; algorithms and methods for operational control; analysis of performance variability; mapping of performance differences; solutions for building integration; and new-generation solar trackers.

Topics of interest for publication include but are not limited to:

- Grid integration of photovoltaic systems;
- Design criteria for small-scale and large-scale photovoltaic systems;
- Modeling and simulation tools for photovoltaic systems;
- Analysis and mitigation of partial shading effects on photovoltaic systems;
- Electricity storage systems for photovoltaic applications;
- Design and control of power converters for grid integration of photovoltaic systems;
- Algorithms and control methods for photovoltaic maximum power point trackers;
- Analysis of power quality issues in grid-connected photovoltaic systems;
- Solar forecasting for grid integration of photovoltaic systems.



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Prof. Dr. Rosario Carbone  
Guest Editor

**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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