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Trends and Prospects in Photovoltaic Systems

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Deadline for manuscript submissions:
31 October 2022

Message from the Guest Editors

Dear Colleagues,

This Special Issue of *Energies* focuses on future technologies of photovoltaic energy systems for the operation of power systems.

The main topics of interest for this issue include, but are not limited to:

- New solar technologies such as floating PV, solar shingles, solar trees and solar carports.
- High-gain converters.
- Module-based optimized PV system.
- Hybrid converters for the application of PV and energy storage.
- Large-scale PV integration to the grid.
- Smart grid solutions to PV system.
- Application of communication technologies, IoT and machine learning techniques for PV integration.
- Requirement of new grid codes.
- New applications of PV such as heating, cooling and EV charging stations.
- DC microgrid applications.
- Solar-powered transportation.