Applications of Photovoltaic Systems for Sustainable Development Using Highly Efficient Materials, Models, and Intelligent Hybrid Systems

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Message from the Guest Editors

The Special Issue aims to cover a wide range of themes and topics, including, but not limited to:

- Energy-efficient sustainable photovoltaic systems;
- Energy security, policy issues, and mathematical problem solutions for sustainable development;
- Intelligent novel hybrid systems;
- PV-based electric vehicles and drones;
- Hardware implementation of AI-based controllers and their complexity;
- Decision support systems for smart grids;
- PV system mathematical modeling and forecasting applications;
- Novel mathematical theories and intelligent hybrid system modeling methods for photovoltaic systems;
- Multiobjective optimization and its complexity;
- AI-based power converter and MPPT;
- Smart batteries and their complexity;
- Deep and reinforcement learning in renewable energy systems;
- Nature-inspired methods and algorithms in photovoltaic systems;
- High-performance computing in sustainable development;
- Mathematical complexity, prospects, and future perspectives in photovoltaic systems.

Special Issue

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Message from the Editor-in-Chief

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