

Special Issue

Design and Optimization of Solar and Wind Energy Systems for Sustainable Development

Message from the Guest Editors

The rapid growth in renewable energy usage highlights the critical role of solar and wind power. Improving system design for higher performance, lower costs, and optimal control presents current research challenges. This Special Issue aims to examine the factors affecting solar and wind system behavior, enhance energy performance, and promote cost-effective development. Approaches including design, modeling, simulation, experimental testing, and optimization are essential for advancing renewable energy solutions. Potential topics include, but are not limited to:

- Solar and wind energy potential and forecasting
- Design and optimization of solar and wind systems
- Solar–wind hybrid energy systems
- Modeling and simulation of solar and wind systems
- System efficiency and performance
- Control strategies and algorithms
- AI techniques for optimal operation
- Optimization of energy management
- Integration into environments and communities
- Energy security and empowerment
- Education on solar and wind systems

We look forward to your contributions.

Guest Editors

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Prof. Dr. Radu Săulescu

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

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