

Special Issue

Sustainable Solar Power Systems and Applications

Message from the Guest Editors

Sustainable solar power systems and applications aim to deliver reliable, clean energy while upholding environmental stewardship, social equity, and economic sustainability, with scope encompassing electricity generation, resource extraction and manufacturing, installation and operation, and decommissioning and recycling. Grounded on the premise that sustainability challenges are interconnected: advances in materials science must consider end-of-life recycling; large-scale deployment must account for land-use competition and ecosystem impacts; the benefits of the solar revolution must be fairly distributed across societies. We invite original research and review articles advancing solar sustainability, and encourage interdisciplinary contributions bridging the technical, environmental, and social sciences. Research Areas (include but not limited to):

- Tandem cells, bifacial panels, BIPV, solar skins
- Energy payback reduction, floating PV, agrivoltaics, hybrids
- Grid stability
- AI/ML (maintenance, forecasting, detection)
- Digital twins, solar tracking
- Solar energy (hard-to-abate sectors)
- Energy justice, community solar, inclusive policies
- Sustainable supply chains, responsible sourcing

Guest Editors

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About the Journal

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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon

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