

Special Issue

The Future of Renewable Energy: The Role of Solar Power in Sustainable Development

Message from the Guest Editors

The escalating urgency of climate change, coupled with the global drive toward carbon neutrality, underscores the pivotal role of solar energy within the broader renewable energy paradigm. This Special Issue aims to critically engage with and expand the scientific discourse surrounding the integration of solar technologies into sustainable development strategies. We invite theoretical and empirical contributions that rigorously investigate the technological frontiers, socio-economic dimensions, and governance mechanisms associated with solar-based energy systems. Relevant topics include, but are not limited to, the following: advanced photovoltaic materials and efficiency enhancement; smart grid integration; energy storage solutions; life cycle and techno-economic assessments; decentralized and off-grid applications; integrated energy models; and regulatory or financial frameworks fostering widespread solar adoption.

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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.

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