Special Issue

Renewable Energy and Power Electronics Technology

Message from the Guest Editors

This Special Issue, entitled “Renewable Energy and Power Electronics Technology”, delves into the interdisciplinary nexus of renewable energy systems and power electronics, emphasizing advancements, challenges, and innovations that shape this dynamic field. This Special Issue provides a platform for the exploration of emerging technologies that enable the efficient generation, conversion, storage, and utilization of renewable energy. In addition, we welcome articles that focus on the role of power electronics in enhancing the penetration of renewable energy, particularly in distributed energy resources and microgrids. Furthermore, this Special Issue discusses the integration of artificial intelligence and machine learning in predictive maintenance, energy forecasting, and system optimization. The scope of this Special Issue includes, but is not limited to, the following topics:

- Renewable energy (Photovoltaic, wind energy systems, etc.)
- Energy conversion technologies
- Energy storage technologies
- Smart grid integration
- Advanced power electronics converters
- Novel converter topologies

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About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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