Special Issue

Symmetry Applied in Renewable Energy

Message from the Guest Editors

This Special Issue, entitled *"Symmetry Applied in Renewable Energy"*, aims to highlight the role of symmetry principles in advancing renewable energy technologies. Symmetry plays a crucial role in the structural design of photovoltaic materials, the optimization of renewable energy conversion systems, and the development of advanced control strategies such as maximum power point tracking (MPPT) methods. These approaches ensure the higher efficiency, reliability, and adaptability of solar and hybrid energy systems under varying environmental conditions. In addition, symmetry-based modeling, simulation, and analytical tools provide new perspectives in energy storage, grid integration, and system stability. This Special Issue invites original research articles, reviews, and case studies that explore symmetry applications in photovoltaics, wind, biomass, and other renewable sources, with a particular focus on innovative MPPT techniques, sustainable system design, and materials optimization. We look forward to your valuable contributions to promote knowledge and innovation in the field of renewable energy.

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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