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Towards a Sustainable Future: Recent Research in Renewable Energies

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Message from the Guest Editor

Dear Colleagues,

Renewable energy has become a crucial issue for the future of humanity. The need to reduce carbon emissions and combat climate change has driven the research and development of renewable energy technologies to an unprecedented pace. This Special Issue will focus on the latest advances in this field, focusing on the following areas. Wind energy: advances in wind turbines, both onshore and offshore, will be discussed, including new materials, designs, and control strategies. Solar energy: the latest technologies in solar photovoltaic and thermal energy will be addressed, including high-efficiency solar cells, solar concentration systems, and innovative applications. Wave, tidal, and ocean energy: technologies for harnessing the energy of waves, tides, and ocean currents will be explored, including wave and tidal energy converters. Power electronics: advances in power electronics for efficiently integrating renewable energy into the electricity grid will be analyzed. Bioenergy: the latest research on biofuels, biogas, and other forms of energy derived from biomass will be discussed.



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Special Issue



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Message from the Editor-in-Chief

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