

Special Issue

Renewable Resource Management and Sustainable Energy Research

Message from the Guest Editors

Research on renewable resource management and sustainable energy focuses on utilizing solar, wind, water, geothermal, and biomass energy to reduce greenhouse gas emissions and support the transition to clean energy. It includes planning energy systems, grid integration, energy storage, smart grids, and managing energy consumption. Research aims to enable an efficient, reliable, and equitable transition from fossil fuels to renewable sources while maintaining energy security. Attention has shifted from individual technologies to system integration, digitalization, optimization, green hydrogen technologies, environmental impact assessments, material recycling, circular economy, and the social and economic aspects of the energy transition. Research areas may include (but are not limited to): Harnessing and storing solar, wind, hydropower, and biomass energy; connecting renewable sources to the electricity grid; adapting energy consumption to production; generating green hydrogen and other fuels from renewable energy; recycling materials and assessing environmental impact; community cooperation and prosumer participation; and ensuring the security and stability of energy systems.

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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. 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

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