Special Issue

Energy Conservation Towards a Low-Carbon and Sustainability Future

Message from the Guest Editors

Saving energy and transitioning to a low-carbon, sustainable future is gaining attention in the environmental and energy research community, particularly in energy efficiency, renewable energy, the built environment, and industrial processes. Utilizing data analysis and AI technologies like neural networks and machine learning allows for a data-driven evaluation of energy efficiency. This approach reduces unnecessary influencing factors, establishes energy savings models quickly, and aids in achieving energy conservation and carbon emission reductions, ultimately improving environmental efficiency.

In this Special Issue, original research articles and reviews are welcome and research areas may include, but are not limited to:

- Industrial process optimization;
- Energy efficiency improvements;
- Renewable energy technology;
- Smart grids and energy storage;
- The integration and optimization of renewable energy systems;
- Carbon capture and storage technology;
- High-performance mechanical system design;
- Energy data analysis;
- Automation and control systems;
- New energy materials.

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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.

Editor-in-Chief

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