

Special Issue

Decarbonizing Our World: Strategies and Technologies for Climate Mitigation

Message from the Guest Editors

This Special Issue will explore the pathways, mechanisms, and innovations driving the global transition toward net-zero emissions. Building upon a growing body of interdisciplinary literature, it seeks to integrate advances in clean energy technologies, carbon capture and utilization, sustainable industrial practices, and low-carbon policy frameworks, while addressing the social and economic dimensions of this transformation. This Special Issue will provide a platform for disseminating cutting-edge research that aligns with the journal's mission to advance sustainable development and environmental innovation. It invites studies that combine scientific rigor with practical solutions, fostering dialogue between researchers, policymakers, and industry leaders. Original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Renewable energy systems and grid integration;
- Carbon capture, utilization, and storage (CCUS);
- Digital and AI-based tools for carbon management;
- Life-cycle and techno-economic assessments of decarbonization technologies;
- Green finance and policy innovations;
- Cross-sectoral strategies for achieving climate neutrality.

Guest Editors

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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

Prof. Dr. Steve W. Lyon

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