

Special Issue

Advancing Carbon Reduction Technology Innovation: Pathways to Global Carbon Neutrality and Sustainable Development

Message from the Guest Editors

This Special Issue will comprehensively explore the critical role of carbon reduction technology innovation in the global journey toward carbon neutrality. We will conduct an in-depth analysis of its theoretical foundations, technological pathways, and practical outcomes, adopting a multidisciplinary perspective to systematically examine this global challenge. The key areas of focus include: Theoretical Foundations and Frontiers of Carbon Reduction Technologies; Mechanisms and Impacts of Global Carbon Neutrality Policies; Dynamic Coupling of Industry Transformation and Technological Change; Applications and Challenges of Carbon Capture and Storage (CCS) Technologies; Green Finance and Innovative Investment Mechanisms; Prospects for Innovation Pathways in Global Carbon Neutrality.

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