

Special Issue

Innovative Approaches to Achieving Carbon Neutrality: Advancements in Carbon Capture, Utilization, and Storage for a Sustainable Future

Message from the Guest Editor

We are excited to invite you to contribute to our Special Issue entitled 'Innovative Approaches to Achieving Carbon Neutrality: Advancements in Carbon Capture, Utilization, and Storage for a Sustainable Future'. This Special Issue aims to explore cutting-edge advancements in Carbon Capture, Utilization, and Storage (CCUS) technologies, with a specific focus on their integration with combustion technologies and renewable energy systems. As the world strives for carbon neutrality, CCUS technologies are emerging as vital components in the quest to mitigate greenhouse gas emissions. This Special Issue will provide a platform for researchers to present innovative strategies and findings related to the development and application of CCUS technologies. We aim to bridge the gap between theory and practice by emphasizing real-world applications and the potential for CCUS technologies to enhance the efficiency of combustion engines, contribute to sustainable hydrogen production, and support renewable energy integration. In this Special Issue, we seek to highlight the interdisciplinary nature of CCUS technology research and its critical role in sustainable development.

Guest Editor

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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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