Special Issue

Carbon Capture, Utilization, and Storage (CCUS) for Clean Energy

Message from the Guest Editor

Global carbon dioxide emissions from fossil fuels and industry were 37.15 $GtCO_2$ in 2022, while these rose 1.1 percent in 2023 to reach a record high of 37.55 $GtCO_2$. Since 1990, overall global CO_2 emissions have increased by more than 60 percent, producing the well-known phenomena of climate change and global warming, with negative impacts on the Earth and human society. A solution to these problems can be provided by carbon capture, utilization, and storage (CCUS) technologies that can support the clean energy transition in several ways: tackling emissions from existing energy infrastructure, as a solution for some of the most challenging emissions, as a cost-effective pathway toward low-carbon hydrogen production, and by removing carbon from the atmosphere. I am pleased to invite you to submit your work to this Special Issue on "Carbon Capture, Utilization, and Storage (CCUS) for Clean Energy".

Guest Editor

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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

Prof. Dr. Marc A. Rosen
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