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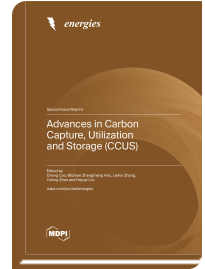
Advances in Carbon Capture, Utilization and Storage (CCUS)

www.mdpi.com/books/reprint/10145

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ISBN 978-3-7258-2287-4 (Hardback)

ISBN 978-3-7258-2288-1 (PDF)



Carbon capture, utilization and storage (CCUS) is regarded as a vital and potentially effective technology used to mitigate anthropogenic CO₂ emissions. The captured CO₂ can be transformed into chemical products and used to enhance oil and gas recovery. CO₂ can also be directly sequestered in underground reservoirs such as depleted oil and gas reservoirs and deep saline aquifers. However, the application of most CCUS technologies is still in the early stage. There is an urgent need to develop advanced and cost-effective CCUS technologies for the capture, transportation, utilization, and storage of CO₂. This Special Issue highlights the current status of CCUS technology options and the frontiers in technological developments, as well as future opportunities. It will be of great value to engineers, scientists, decision makers, and the public and will facilitate research on and the development of CCUS technologies.



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