DESCRIPTION

Addresses materials, technology, and products that could help solve the global environmental crisis once commercialized

This multidisciplinary book encompasses state-of-the-art research on the topics of Carbon Capture and Storage (CCS), and complements existing CCS technique publications with the newest research and reviews. It discusses key challenges involved in the CCS materials design, processing, and modeling and provides in-depth coverage of solvent-based carbon capture, sorbent-based carbon capture, membrane-based carbon capture, novel carbon capture methods, computational modeling, carbon capture materials including metal organic frameworks (MOF), electrochemical capture and conversion, membranes and solvents, and geological sequestration.


- Addresses one of the most pressing concerns of society—that of environmental damage caused by the greenhouse gases emitted as we use fossil fuels
• Covers cutting-edge capture technology with a focus on materials and technology rather than regulation and cost

• Highlights the common and novel CCS materials that are of greatest interest to industrial researchers

• Provides insight into CCS materials design, processing characterization, and computer modeling

*Materials and Processes for CO₂ Capture, Conversion and Sequestration* is ideal for materials scientists and engineers, energy scientists and engineers, inorganic chemists, environmental scientists, pollution control scientists, and carbon chemists.

For additional product details, please visit [https://www.wiley.com/en-us](https://www.wiley.com/en-us)