



Porous Materials for Carbon Dioxide Capture (Green Chemistry and Sustainable Technology)

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This multi-authored book provides a comprehensive overview of the latest developments in porous CO₂ capture materials, including ionic liquid-derived carbonaceous adsorbents, porous carbons, metal-organic frameworks, porous aromatic frameworks, micro porous organic polymers. It also reviews the sorption techniques such as cyclic uptake and desorption reactions and membrane separations. In each category, the design and fabrication, the comprehensive characterization, the evaluation of CO₂ sorption/separation and the sorption/degradation mechanism are highlighted. In addition, the advantages and remaining challenges as well as future perspectives for each porous material are covered.

This book is aimed at scientists and graduate students in such fields as separation, carbon, polymer, chemistry, material science and technology, who will use and appreciate this information source in their research. Other specialists may consult specific chapters to find the latest, authoritative reviews.

Dr. An-Hui Lu is a Professor at the State Key Laboratory of Fine Chemicals, School of Chemical Engineering, Faculty of Chemical, Environmental and Biological Science and Technology, Dalian University of Technology, China.

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