



Capture and Utilization of Carbon Dioxide with Polyethylene Glycol (SpringerBriefs in Molecular Science)

Zhen-Zhen Yang, Qing-Wen Song, Liang-Nian He

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In this volume, Professor He and his coworkers summarize polyethylene glycol (PEG)-promoted CO₂ chemistry on the basis of understanding about phase behavior of PEG/CO₂ system and reaction mechanism at molecular level. As PEG could be utilized as a green replacement for organic solvents, phase-transfer catalyst, surfactant, support in various reaction systems, significantly promoting catalytic activity and recovering expensive metal catalysts, particularly regarded as a CO₂-philic material, the authors focus on special applications of PEG in CO₂ capture and utilization, including PEG-functionalized catalysts for efficient transformation of CO₂ and PEG-functionalized absorbents for efficient CO₂ capture.

Furthermore, they describe carbon capture and utilization strategy as an alternative approach to address the energy penalty problem in carbon capture and storage.

Interestingly, the authors also discuss PEG radical chemistry in dense CO₂ as rather creative and unusual use of PEG, presumably serves as a reaction medium and a radical initiator for radical chemistry.



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