

Capture and utilization of carbon dioxide with polyethylene glycol

Zhen-Zhen, Yang, author

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Abstrak

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