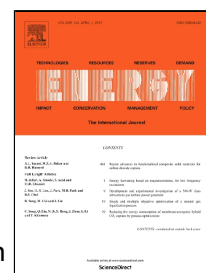


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Prathana Nimmanterdwong, Benjapon Chalermnsinsuwan, Pornpote Piumsomboon



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Emergy analysis of three alternative carbon dioxide capture processes

Prathana Nimmanterdwong^a, Benjapon Chalermisinsuwan^{a,b,*}, Pornpote Piumsomboon^{a,b}

^a Fuels Research Center, Department of Chemical Technology, Faculty of Science, Chulalongkorn University, 254 Phayathai Road, Pathumwan, Bangkok 10330, Thailand

^b Center of Excellence on Petrochemical and Materials Technology, Chulalongkorn University, 254 Phayathai Road, Pathumwan, Bangkok 10330, Thailand

Highlights

- Emergy accounts the process performance in terms of sustainability.
- Emergy analysis for three alternative CO₂ capture processes was evaluated.
- The solid adsorption process consumed the lowest natural investment.
- The chemical absorption process used the highest natural investment.
- The process optimization was proposed to obtain better system sustainability.

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