

Institute of Chemical Engineering

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Absorption of carbon dioxide in packed column sprayed with ionic liquid. Part I - Experimental research

Publication date:	29.12.2016
Publication title:	Absorption of carbon dioxide in packed column sprayed with ionic liquid. Part I - Experimental research
Authors:	Adam Rotkegel , Zenon Ziobrowski
Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
Tags:	ionic liquids , co2 absorption , packed column

Abstract: The experimental study of CO₂ absorption in ionic liquids: [Emim][Ac] and [Bmim][Ac] in packed bed column is presented. The influence of initial CO₂ concentration, absorption temperature and water content in ionic liquid on removal efficiency was investigated. The results show that in the same experimental conditions ILs have comparable CO₂ absorption capacities with amine solution. However ILs need much longer times to absorb the same amount of carbon dioxide from gas mixture.

Attachments:

[Zeszyt-20-2016](#) pdf, 4.77 MB

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Number of downloads:	439

Tagi: ionic liquids, co2 absorption, packed column

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Published by:	Artur Wojdyła
Published at:	18.09.2025 12:49
Number of views:	169