Institute of Chemical Engineering

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

Created at:	04.08.2025
Published by:	Artur Wojdyła
Published at:	05.08.2025 08:19
Number of downloads:	366

Tagi: ionic liquids, co2 absorption, packed column

Metryczka

Published by:	Artur Wojdyła
Published at:	18.09.2025 12:49
Number of views:	101