

Institute of Chemical Engineering

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Carbon dioxide and nitrogen separation on ceramic liquid membranes impregnated with ionic liquid

Publication date:	27.12.2018
Publication title:	Carbon dioxide and nitrogen separation on ceramic liquid membranes impregnated with ionic liquid
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Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
Tags:	absorption , carbon dioxide , ionic liquids

Abstrakt: The experimental results of carbon dioxide and nitrogen separation on ceramic membranes impregnated with ionic liquid [Emim][Ac] are presented. Different ceramic materials were investigated at the temperature of 20°C and at the pressures of 1-7 bar. The ionic liquid was introduced into ceramic support by coating and soaking. It was found, that prepared membranes are characterized by small mass fluxes and low selectivity.

Attachments:

[Zeszyt 22 \(2018\)](#) pdf, 4.49 MB

Published by:	Artur Wojdyła
Published at:	31.07.2025 12:53
Last edited by:	Artur Wojdyła
Last edited at:	31.07.2025 12:55
Number of downloads:	122

Tagi: absorption, carbon dioxide, ionic liquids

Metryczka

Published by:	Artur Wojdyła
Published at:	05.08.2025 13:46
Number of views:	139