

Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/gas-mixture-separation-on-ceramic-membranes-impregnated-with-ionic-liquid>

Gas mixture separation on ceramic membranes impregnated with ionic liquid.

Publication date:	30.12.2019
Publication title:	Gas mixture separation on ceramic membranes impregnated with ionic liquid.
Authors:	Adam Rotkegel , Zenon Ziobrowski
Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
Tags:	absorption , carbon dioxide , ionic liquids

Abstract: The experimental results of carbon dioxide and nitrogen separation on ceramic membranes impregnated with ionic liquid [Emim][Ac] (1-ethyl-3-methylimidazolium acetate) are presented. Ceramic membranes made by Pervatech BV were investigated in 20-60°C and in the pressure range 1-7 bar. The ionic liquid was introduced into ceramic support by coating and soaking. It was found, that prepared SILMs are characterized by small mass fluxes and high selectivities.

Attachments:

[Zeszyt-23-2019](#) pdf, 2.84 MB

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Tagi: absorption, carbon dioxide, ionic liquids

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