

# Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/investigation-of-co2-n2-separation-efficiency-on-silms-based-on-ceramic-support>

## Investigation of CO<sub>2</sub>/N<sub>2</sub> separation efficiency on SILMS based on ceramic support

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<b>Publication title:</b>	<a href="https://iich.gliwice.pl/en/article/investigation-of-co2-n2-separation-efficiency-on-silms-based-on-ceramic-support">Investigation of CO<sub>2</sub>/N<sub>2</sub> separation efficiency on SILMS based on ceramic support</a>
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**Abstract:** The experimental results of carbon dioxide and nitrogen separation on ceramic membranes impregnated with ionic liquids [Emim][Ac] (1-ethyl-3-methylimidazolium acetate) and Emim][Tf<sub>2</sub>N] (1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide) are presented. Ceramic membranes made by Inopor 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-24-2020](#) pdf, 3.25 MB

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# Metryczka

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