

Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/influence-of-cross-linking-in-poly-ionic-liquid-membranes-on-diffusivity-and-solubility-of-gases>

Influence of cross-linking in poly(ionic liquid) membranes on diffusivity and solubility of gases

| | |
|-----------------------------|---|
| Publication date: | 30.12.2014 |
| Publication title: | Influence of cross-linking in poly(ionic liquid) membranes on diffusivity and solubility of gases |
| Authors: | Krzysztof Warmuziński , Daniel Piech |
| Journal information: | Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk |
| Tags: | membrane separation , carbon dioxide , poly(ionic liquid)s , cross-linking , diffusion |

Abstract: Review of literature data concerning poly(ionic liquid) membranes for gas separation is presented. The influence of polymer structure (e.g. cross-linking) on diffusivity and solubility of CO₂, N₂, CH₄ is discussed. Performance of cross-linking in poly(ionic liquid)s is described.

Attachments:

[Zeszyt-18-2014](#) pdf, 6.25 MB

| | |
|-----------------------------|------------------|
| Created at: | 04.08.2025 |
| Published by: | Artur Wojdyła |
| Published at: | 04.08.2025 12:47 |
| Number of downloads: | 173 |

Tagi: membrane separation, carbon dioxide, poly(ionic liquid)s, cross-linking, diffusion

Metryczka

| | |
|-------------------------|------------------|
| Published by: | Artur Wojdyła |
| Published at: | 18.09.2025 14:00 |
| Number of views: | 186 |