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Gas mixture separation on ceramic membranes impregnated with ionic liquid.

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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:

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