Institute of Chemical Engineering

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

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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:

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