

Institute of Chemical Engineering

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Monolithic carbon dioxide hybrid adsorbents

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Abstract: New structural carbon dioxide sorbents based on supported polyamines onto silica monoliths with hierarchical pore structure were elaborated. Sorption capacity/type/amount of amine precursor relationships were studied. The results obtained were compared with the literature data relating to the sorption of CO₂ on similarly modified powdered porous materials. The proposed carriers, in addition to a more usable form, showed improved sorption properties.

Attachments:

[Zeszyt-20-2016](#) pdf, 4.77 MB

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