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Sequestration of carbon dioxide by mineral carbonation process using fly ash from lignite fluidized bed combustion

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Abstract: The preliminary studies of indirect aqueous carbonation process using fly ash from lignite fluidized bed combustion are presented. Leachate after the dissolution of waste of pH=13 contained $0.0535 \text{ mol} \cdot \text{l}^{-1}$ of Ca^{+2} . The experimental research were conducted for a mixture of nitrogen and carbon dioxide, with about 13% of CO_2 . After 9 minutes of conducting the process a 50 % conversion of calcium was attained, and almost 100% of carbon dioxide supplied to the reactor was captured.

Attachments:

[Zeszyt-19-2015](#) pdf, 5.37 MB

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Metryczka

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