

Amine modified molecular sieves 13X as solid sorbents for CO₂ capture

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Amine modified molecular sieves 13X as solid sorbents were synthesized by wet impregnation method. The novel sorbents were chosen by the best amine loading condition. Thermogravimetric analyzer (TGA) result was demonstrated that the sorbents showed improvement in CO₂ sorption capacity over the unmodified molecular sieves 13X. The sorbents were also studied various parameters like synthesis temperature and shaking time.