Accepted Manuscript

Synthesis and characterization of Zr incorporation into highly ordered mesostructured SBA-15 material and its performance for CO₂ adsorption

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PII: \$1387-1811(17)30418-3

DOI: 10.1016/j.micromeso.2017.06.015

Reference: MICMAT 8390

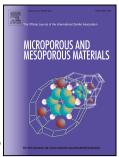
To appear in: Microporous and Mesoporous Materials

Received Date: 29 March 2017

Revised Date: 4 June 2017 Accepted Date: 7 June 2017

Please cite this article as:

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SBA-15 Zr-SBA-15 X Tetrahedral Zr⁴⁺ species Tiny and well-dispersed Zr clusters CO2 gas molecule Micropores on inner pore wall

Graphical abstract

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