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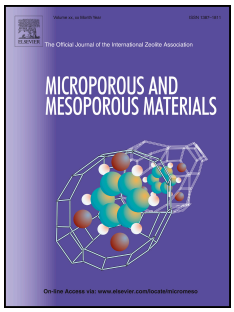

Study of CO_2 adsorption on iron oxide doped MCM-41

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PII: S1387-1811(17)30134-8

DOI: 10.1016/j.micromeso.2017.02.072

Reference: MICMAT 8182

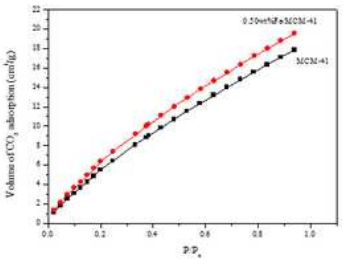
To appear in: *Microporous and Mesoporous Materials*

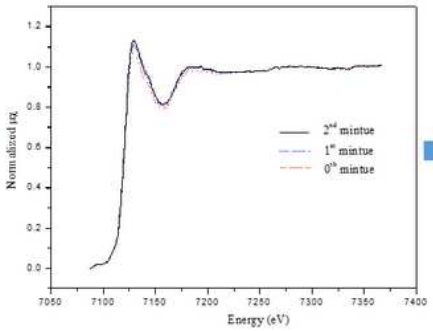
Received Date: 25 November 2016

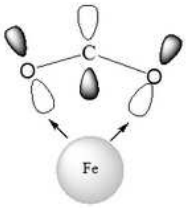
Revised Date: 30 January 2017

Accepted Date: 23 February 2017

Please cite this article as: K.C. Chanapattharapol, S. Krachuamram, S. Youngme, Study of CO_2 adsorption on iron oxide doped MCM-41, *Microporous and Mesoporous Materials* (2017), doi: 10.1016/j.micromeso.2017.02.072.







- Increasing of CO_2 adsorption capacity upon addition of iron oxide
- White line intensities comparison indicate some electrons movement between iron oxide and adsorbed CO_2
- Enhancing of CO_2 adsorption capacity partly due to transferring of electron from iron oxide to adsorbed CO_2