Accepted Manuscript

Title: Insight into the efficient oxidation of methyl-ethyl-ketone over hierarchically micro-mesostructured

Pt/K-(Al)SiO₂ nanorod catalysts: Structure-activity

relationships and mechanism

Authors: Zeyu Jiang, Chi He, Nicholas F. Dummer, Jianwen Shi, Mingjiao Tian, Chunyan Ma, Zhengping Hao, Stuart H. Taylor, Mudi Ma, Zhenxing Shen

PII: S0926-3373(17)31156-6

DOI: https://doi.org/10.1016/j.apcatb.2017.12.007

Reference: APCATB 16242

To appear in: Applied Catalysis B: Environmental

Received date: 25-8-2017 Revised date: 30-11-2017 Accepted date: 4-12-2017

Please cite this article as: Zeyu Jiang, Chi He, Nicholas F.Dummer, Jianwen Shi, Mingjiao Tian, Chunyan Ma, Zhengping Hao, Stuart H.Taylor, Mudi Ma, Zhenxing Shen, Insight into the efficient oxidation of methyl-ethyl-ketone over hierarchically micro-mesostructured Pt/K-(Al)SiO2 nanorod catalysts: Structure-activity relationships and mechanism, Applied Catalysis B, Environmental https://doi.org/10.1016/j.apcatb.2017.12.007

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Insight into the efficient oxidation of methyl-ethyl-ketone over hierarchically

micro-mesostructured Pt/K-(Al)SiO₂ nanorod catalysts: Structure-activity

relationships and mechanism

Zeyu Jiang¹, Chi He^{1,2,*}, Nicholas F. Dummer², Jianwen Shi³, Mingjiao Tian¹, Chunyan Ma⁴,

Zhengping Hao⁴, Stuart H. Taylor², Mudi Ma¹, Zhenxing Shen¹

¹Department of Environmental Science and Engineering, State Key Laboratory of Multiphase

Flow in Power Engineering, School of Energy and Power Engineering, Xi'an Jiaotong University,

Xi'an 710049, Shaanxi, P.R. China

²Cardiff Catalysis Institute, School of Chemistry, Cardiff University, Main Building, Park Place,

Cardiff, CF10 3AT, UK

³Center of Nanomaterials for Renewable Energy, State Key Laboratory of Electrical Insulation

and Power Equipment, School of Electrical Engineering, Xi'an Jiaotong University, Xi'an 710049,

Shaanxi, China

⁴Department of Environmental Nano-materials, Research Center for Eco-Environmental Sciences,

Chinese Academy of Sciences, Beijing 100085, P.R. China

*To whom correspondence should be addressed:

Tel./Fax: +86 29 8266 3857

E-mail: chi_he@xjtu.edu.cn (C. He)

Download English Version:

https://daneshyari.com/en/article/6498618

Download Persian Version:

https://daneshyari.com/article/6498618

<u>Daneshyari.com</u>