Accepted Manuscript

The effect of oxygen vacancies and water on HCHO catalytic oxidation over Co_3O_4 catalyst: a combination of Density Functional Theory and microkinetic study

Jianlin Deng, Weiyu Song, Lulu Chen, Lu Wang, Meizan Jing, Yu Ren, Zhen Zhao, Jian Liu

PII: S1385-8947(18)31665-6

DOI: https://doi.org/10.1016/j.cej.2018.08.195

Reference: CEJ 19809

To appear in: Chemical Engineering Journal

Received Date: 29 May 2018
Revised Date: 10 August 2018
Accepted Date: 27 August 2018



Please cite this article as: J. Deng, W. Song, L. Chen, L. Wang, M. Jing, Y. Ren, Z. Zhao, J. Liu, The effect of oxygen vacancies and water on HCHO catalytic oxidation over Co₃O₄ catalyst: a combination of Density Functional Theory and microkinetic study, *Chemical Engineering Journal* (2018), doi: https://doi.org/10.1016/j.cej. 2018.08.195

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.

ACCEPTED MANUSCRIPT

The effect of oxygen vacancies and water on HCHO catalytic oxidation over Co_3O_4 catalyst: a combination of Density Functional Theory and microkinetic study

Jianlin Deng,†§ Weiyu Song,†§ Lulu Chen,† Lu Wang,† Meizan Jing,† Yu Ren,† Zhen Zhao,† Jian Liu*†

[†] State Key Laboratory of Heavy Oil Processing and Beijing Key Lab of Oil & Gas Pollution Control, China University of Petroleum, Beijing 102249, P. R. China;

* Corresponding author: E-mail address: liujian@cup.edu.cn

Postal Address: 18# Fuxue Road, Chang Ping District, Beijing, 102249, China,

Tel: 86-10-89732278, Fax: 86-10-69724721

[§] These authors contributed equally as the first author

Download English Version:

https://daneshyari.com/en/article/10130893

Download Persian Version:

https://daneshyari.com/article/10130893

<u>Daneshyari.com</u>