Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A. This journal is © The Royal Society of Chemistry 2017

Electronic Supplementary Information (ESI)

Hollow Mo/HZSM-5 Zeolite Capsule Catalyst: Preparation and Enhanced Catalytic Properties in Methane Dehydroaromatization

Pengfei Zhu,^{a,b} Guohui Yang,^b Jian Sun,*c Ronggang Fan,^d Peipei Zhang,^b Yoshiharu

Yoneyama, b and Noritatsu Tsubaki*b

E-mail: (J. Sun) sunj@dicp.ac.cn; (N. Tsubaki) tsubaki@eng.u-toyama.ac.jp

^a School of Environmental Science and Engineering, Shaanxi University of Science and Technology, Xian 710021, PR China

^b Department of Applied Chemistry, School of Engineering, University of Toyama, Gofuku 3190, Toyama 930-8555, Japan

^c Dalian National Laboratory for Clean Energy (DNL), Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, PR China

^d ShinkaCo. Ltd., Gofuku 3383-4, Toyama 930-8555, Japan

^{*}Corresponding authors:

SEM images of the HZSM-5 and Silicalite-1 zeolite

The crystal sizes of the HZSM-5 and Silicalilte-1 used for preparation of Mo/S-Z-M catalyst are 1 μ m and 3-5 μ m, respectively, as displayed in Figure S1.

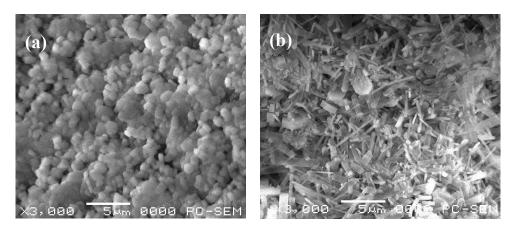


Figure S1 SEM images of the HZSM-5 (a) and Silicalite-1 (b)