

Supplementary Information

Restricted diffusion of model sulfides over NiMo/BK catalyst under hydrodesulfurization reaction conditions

Huadong Wu^{a,b}, Aijun Duan^{1,* ,b}, Zhen Zhao^{*,b}, Chunming Xu^b, Guiyuan Jiang^b, Jian
Liu^b, Yuechang Wei^b, Jianmei Li^b, Kebin Chi^c, Jia Guo^a

^a Key Laboratory of Green Chemical Process (Wuhan Institute of Technology), Ministry of Education, Hubei Key Laboratory of Novel Chemical Reactor and Green Chemical Technology, Wuhan 430073, P. R. China

^b State Key Laboratory of Heavy Oil Processing, China University of Petroleum, Beijing, P. R. China

^c Petrochemical Research Institute, PetroChina Company Limited, Beijing, P. R. China

* Corresponding authors: Tel: 86-10-89731586; Fax: 86-10-69724728;

E-mail address: zhenzhao@cup.edu.cn;

¹ This author has equal contribution as the first author.

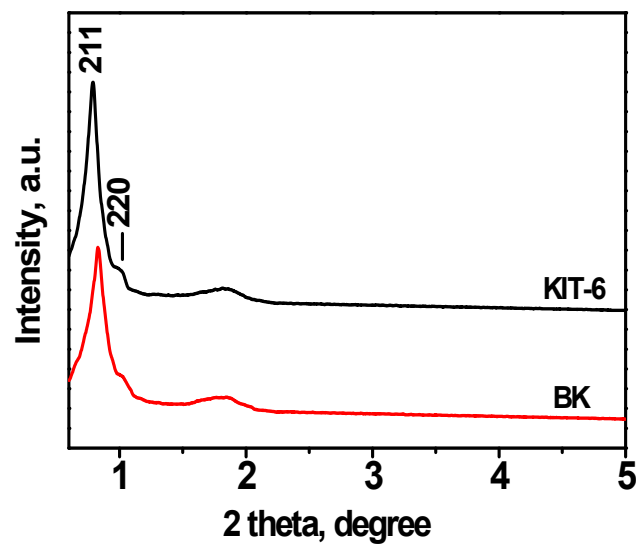


Fig. S1 Small angle XRD patterns of the synthesized BK and KIT-6 materials.

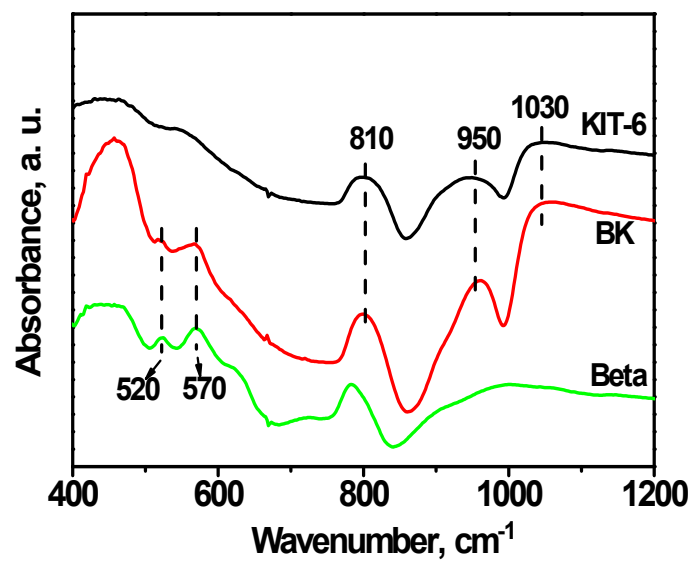


Fig. S2 FTIR spectra of the as-synthesized materials.

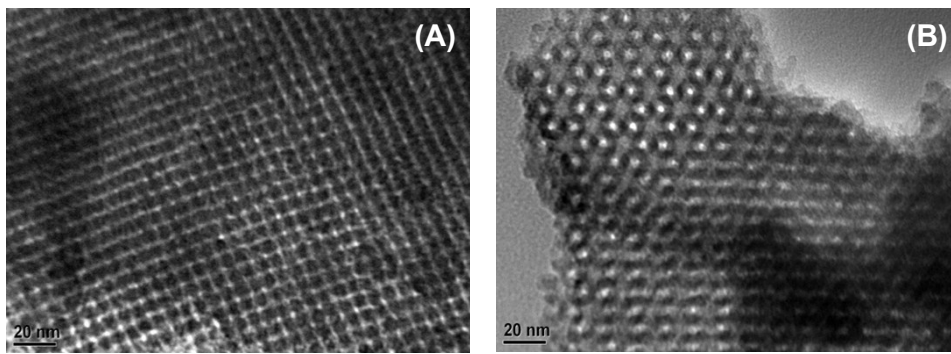


Fig. S3 TEM images of the as-synthesized BK support.