



Alkanes-assisted low temperature formation of highly ordered SBA-15 with large cylindrical mesopores

Junming Sun^a, He Zhang^a, Ding Ma^a, Yangying Chen^a, Xinhe Bao^a, Achim Klein-Hoffmann^b, Norbert Pfänder^b and Dang Sheng Su^b

^aState Key Laboratory of Catalysis, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, P. R. China. <u>E-mail: xhbao@dicp.ac.cn;</u> Fax: +86-411-84694447 ^bDepartment of Inorganic Chemistry, Fritz-Haber Institute of the Max Planck Society, Berlin D-14195, Germany

Abstract

Highly ordered SBA-15 silicas with large cylindrical mesopores (~15 nm) are successfully obtained with the help of NH_4F by controlling the initial reaction temperatures in the presence of excess amounts of alkanes.