

The Influences of Al Species and Ti Species on the Catalytic Epoxidation over Si/Ti-pillared MCM-36 synthesized from MCM-22

Fang Jin,^{1,2} Shingjong Huang³, Soofin Cheng^{1}, Yuanxin Wu², Chih-Cheng Chang¹ and Yu-Wei Huang¹*

¹Key Laboratory for Green Chemical Process of Ministry of Education, School of Chemical Engineering and Pharmacy, Wuhan Institute of Technology, Wuhan 430074, China

²Department of Chemistry, National Taiwan University, Taipei 10617, Taiwan

³Instrumentation Center, National Taiwan University, Taipei 10617, Taiwan.

Supporting information

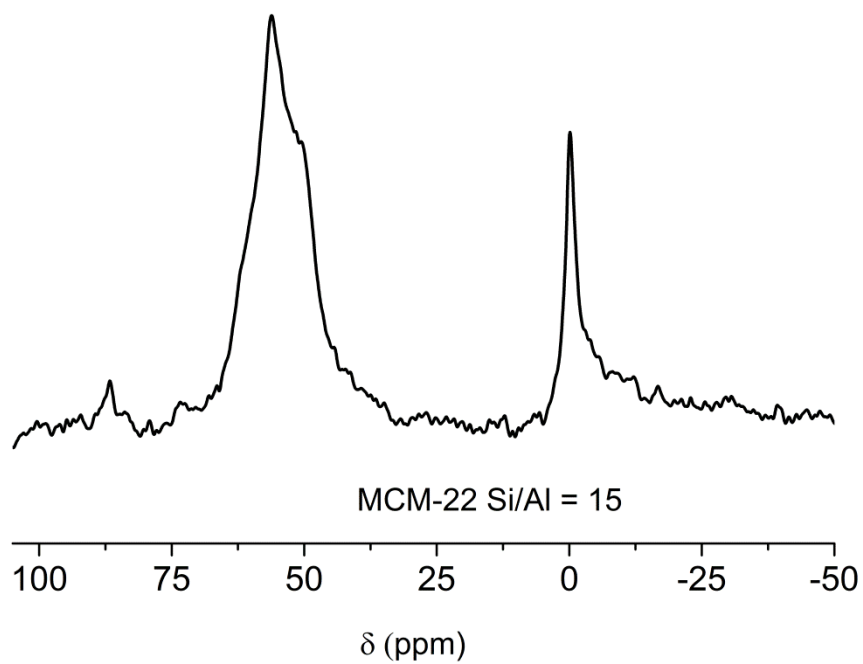


Figure S1. ^{29}Si MAS NMR spectroscopy of MCM-22 with Si/Al ratio of 15.

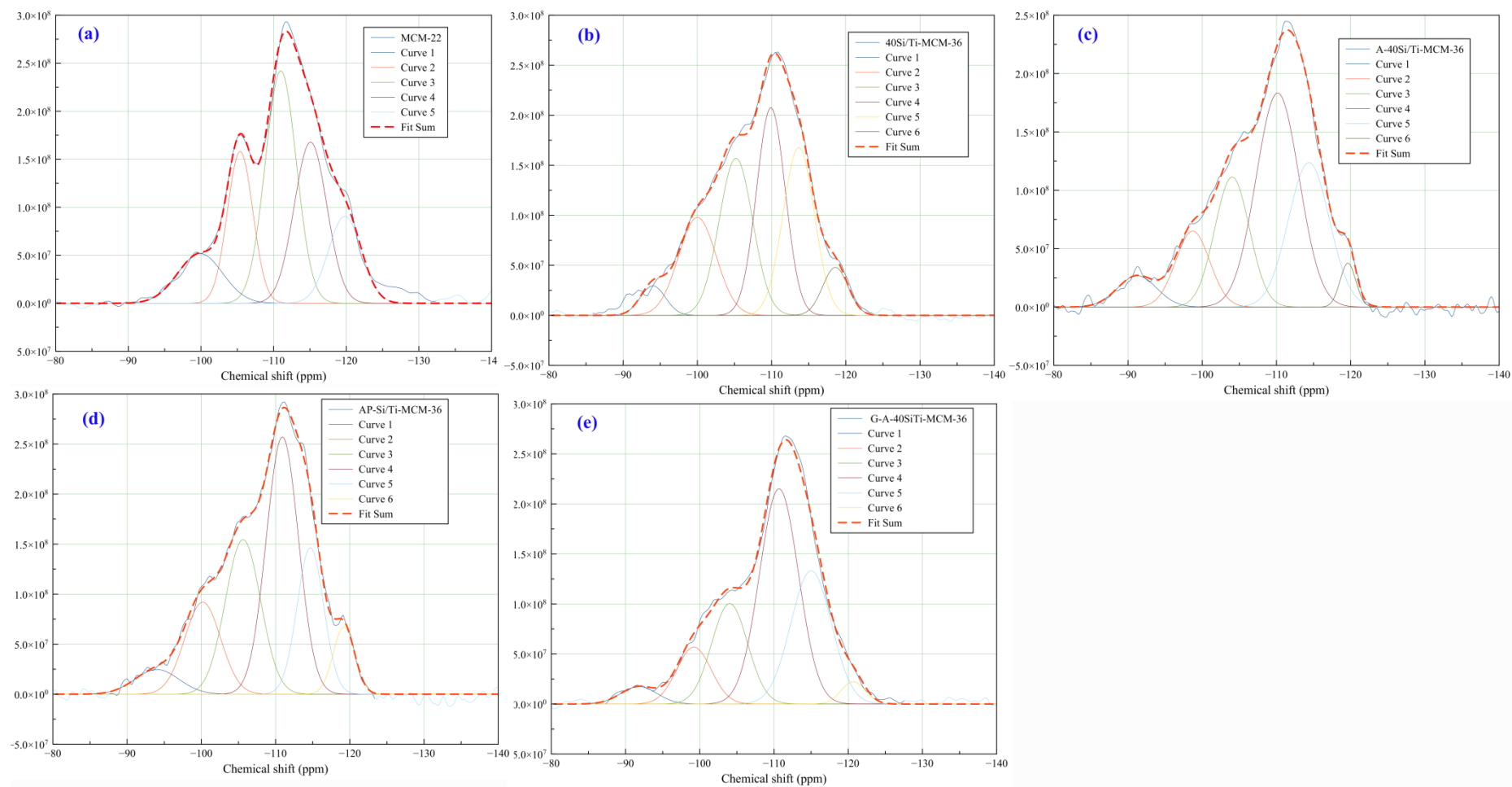


Figure S2. Fitting results of ^{29}Si MAS NMR spectra of (a) MCM-22, (b) 40Si/Ti-MCM-36, (c) A-40Si/Ti-MCM-36(1 h), (d) AP-Si/Ti-MCM-36(6 h), and (e) G-A-Si/Ti-MCM-36(1 h).