

Supplementary Information

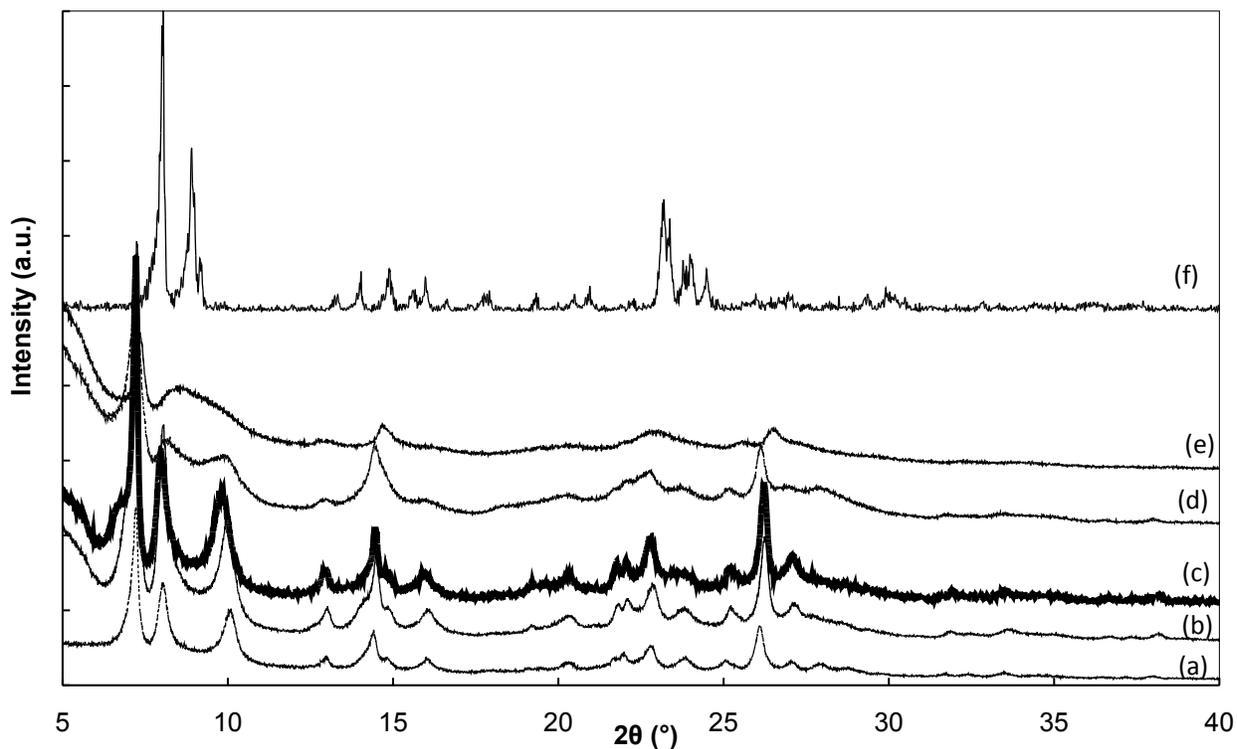


Figure S1. XRD patterns of tested MWW catalysts: (a) Al-MCM-22(30), (b) Ti-MCM-22(30), (c) Ti-MCM-22(50), (d) Al-MCM-36, (e) Ti-MCM-36, and (f) TS-1.

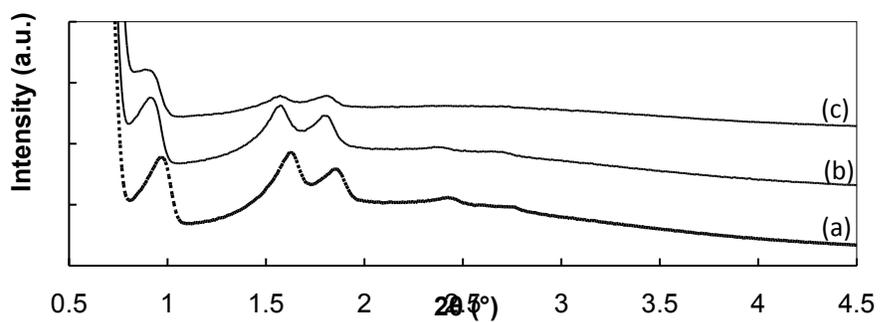


Figure S2. Low angle XRD patterns of tested MWW catalysts: (a) SBA-15, (b) Ti-SBA-15(4.5), and (c) Ti-SBA-15(2.3).

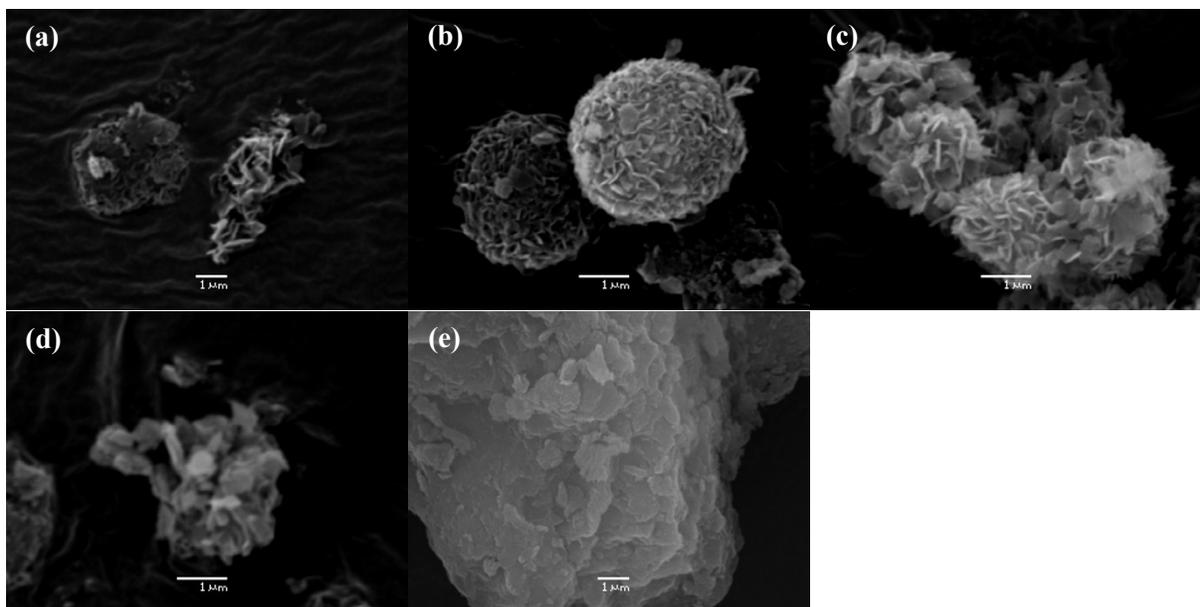


Figure S3. SEM images of synthesized zeolites (a) Al-MCM-22(30), (b) Ti-MCM-22(30), (c) Ti-MCM-22(50), (d) Al-MCM-36 and (e) Ti-MCM-36.

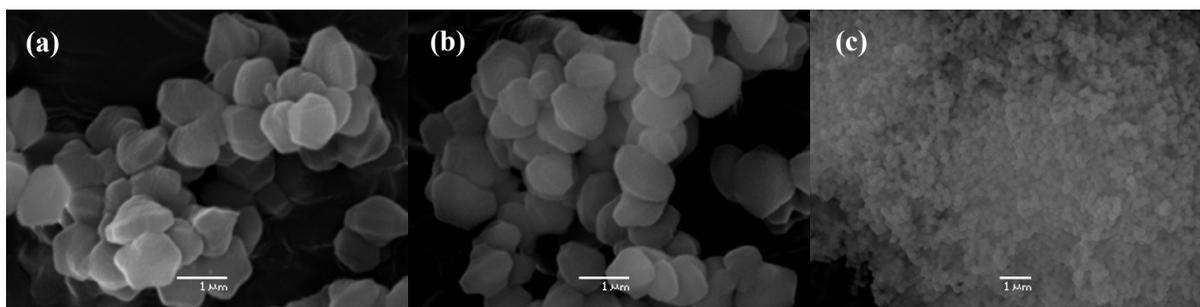


Figure S4. SEM images of (a) Ti-SBA-15(4.5), (b) Ti-SBA-15(2.3) and (c) TS-1