

Supplementary Materials: In Situ Recrystallization of Mesoporous Carbon–Silica Composite for the Synthesis of Hierarchically Porous Zeolites

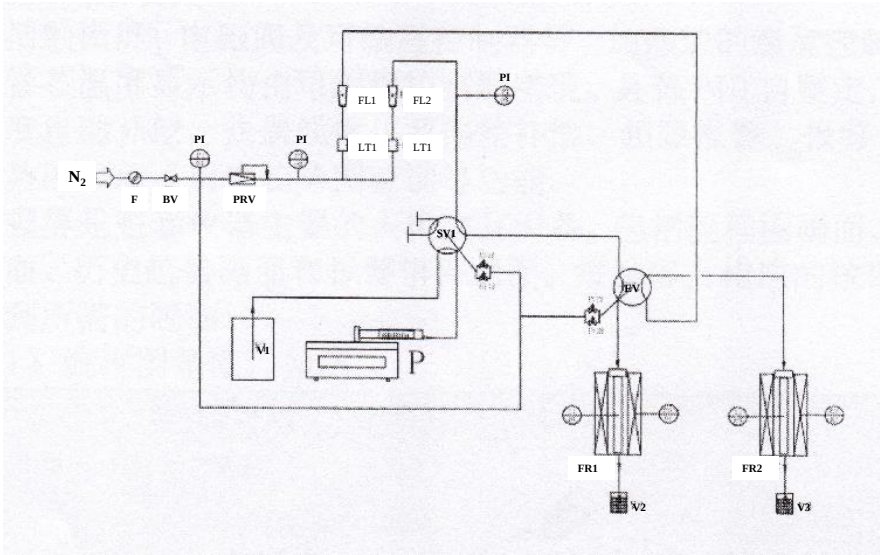
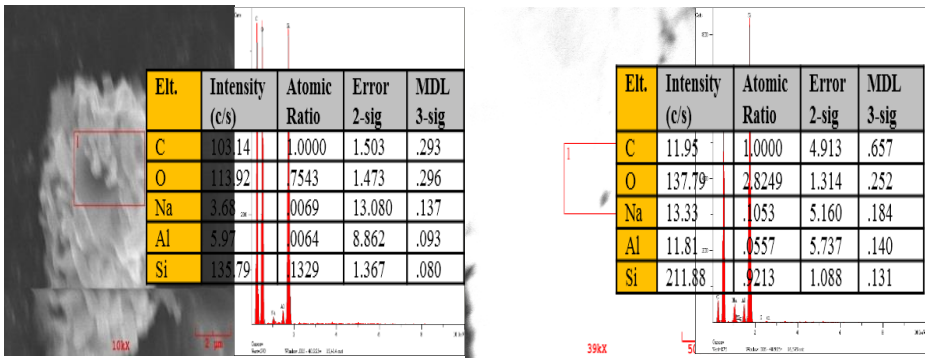


Figure S1. The schematic diagram of micro activity test unit. F: Filter valve; BV: Ball valve; PI: Pressure gauge; PVR: Pressure reducing valve; LT: Rotameter; FL: Flow control valve; SV: Filter valve; EV: Ball valve; P: Pressure reducing valve; V1: Rotameter; V2/V3: Flow control valve; FR: Reaction furnace.



Analysis Report: Image HPZ-CSi-8h

Figure S2. Elemental analysis with the EDS mounted on the SEM of HPZ-CSi-8h samples.

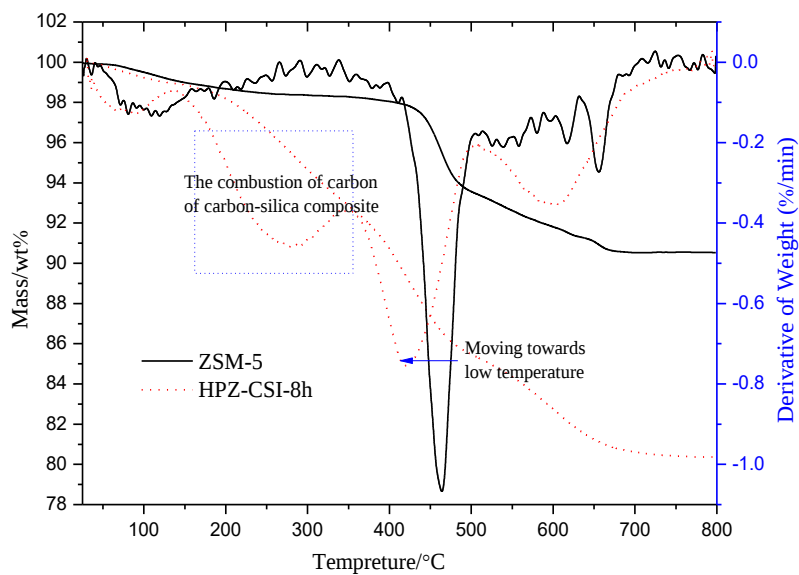


Figure S3. TG/DTA curves of HPZ-CSI-8h and ZSM-5 samples.

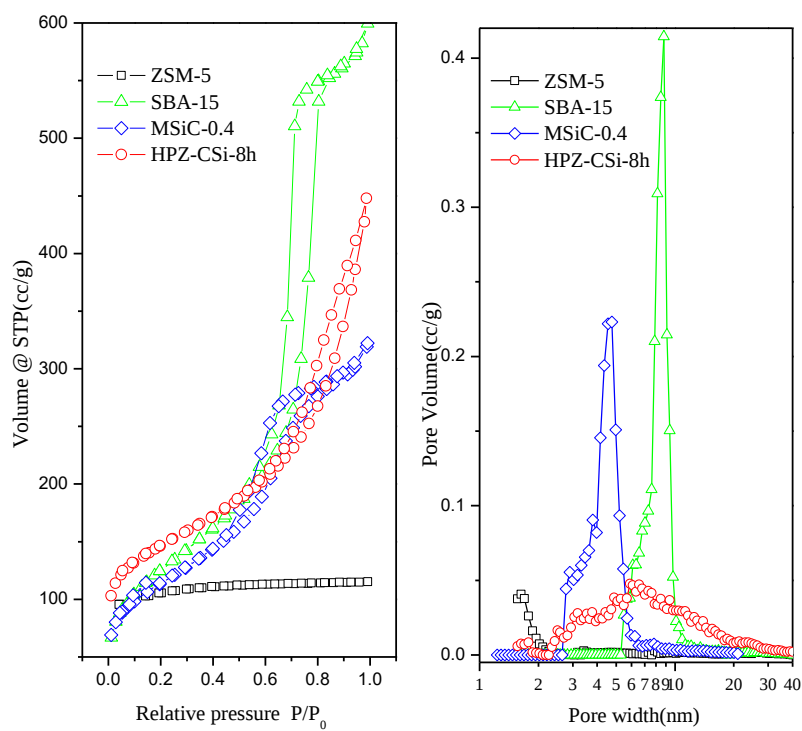


Figure S4. N₂ adsorption-desorption isotherms and pore size distribution of ZSM-5, SBA-15, MSiC-0.4 and HPZ-CSI-8h samples.

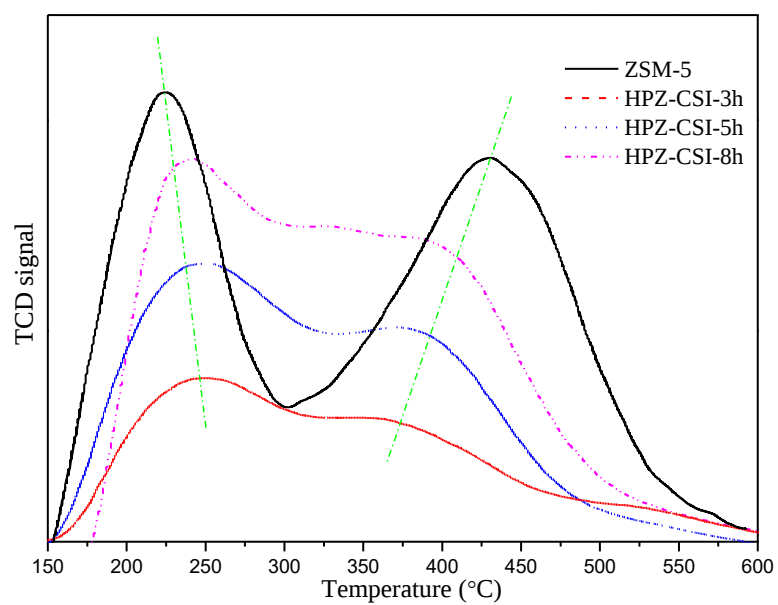


Figure S5. NH_3 -TPD of HPZ-CSI-x and ZSM-5 samples.

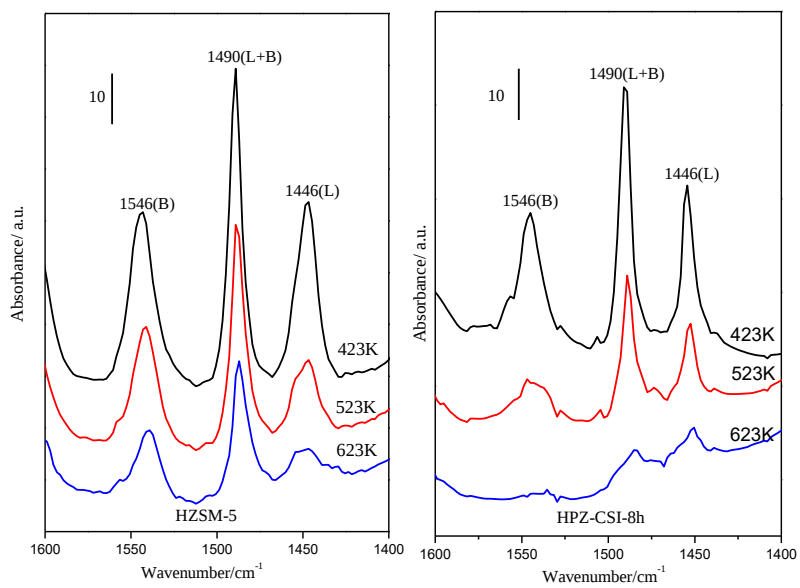


Figure S6. Pyridine-adsorbed IR spectra of HPZ-CSI-8h and ZSM-5 samples.