

Supporting Information

Superior performance of Pt catalyst supported on nanoporous SiC-C composites for liquid-phase selective hydrogenation of cinnamaldehyde

Ruihua Yao, Junrui Li, Peng Wu and Xiaohong Li*

Shanghai Key Laboratory of Green Chemistry and Chemical Processes, School of Chemistry and Molecular Engineering, East China Normal University, 3663 North Zhongshan Road, Shanghai 200062

E-mail: xhli@chem.ecnu.edu.cn

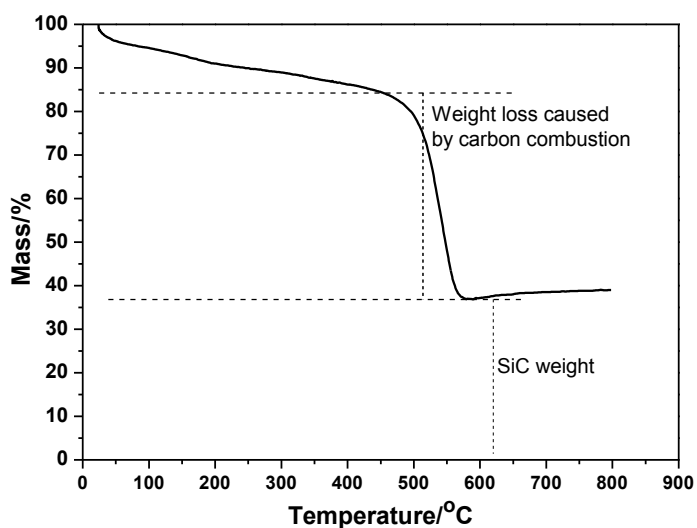


Figure S1. TG profile of nanoporous SiC-C composites from r.t. to 800 °C under air atmosphere.

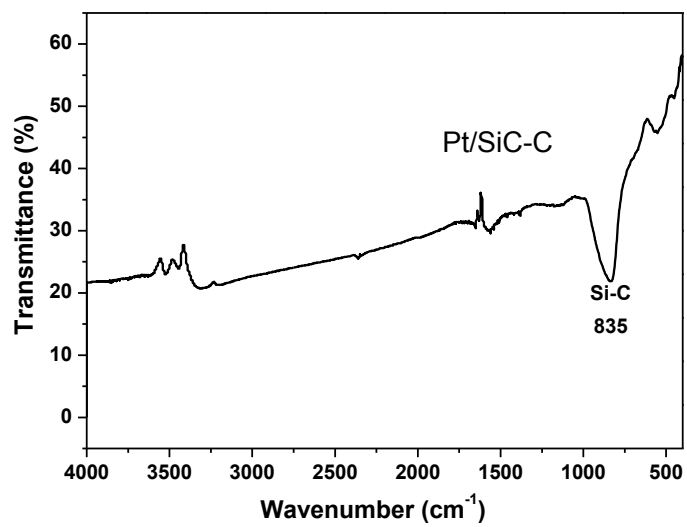


Figure S2. Infrared spectrum of nanoporous SiC-C composites.

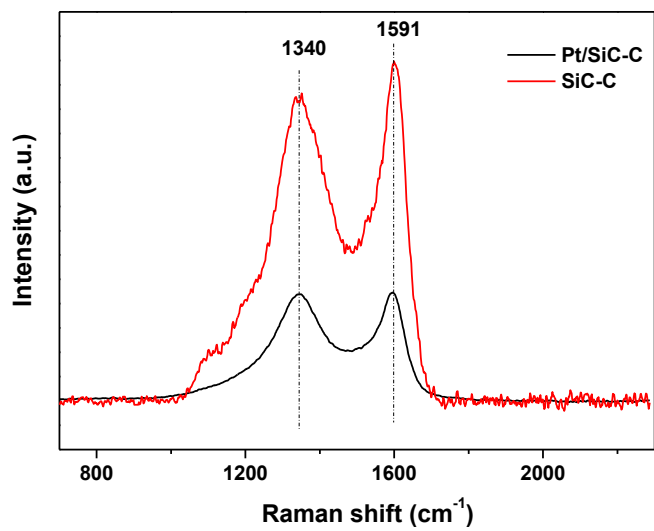


Figure S3. Raman spectra of nanoporous SiC-C composites and Pt/SiC-C catalyst excited using a 514 nm laser.

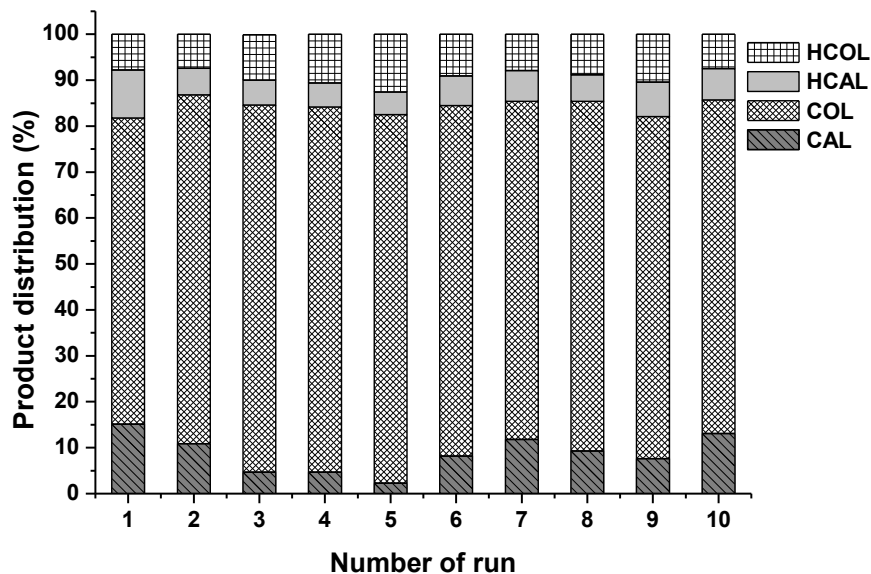


Figure S4. Product distribution *VS* reaction runs for the liquid-phase hydrogenation of CAL at room temperature with the Pt/SiC-C catalyst. Reaction conditions: 0.03 g Pt/SiC-C catalyst, 20 mL solvent (18 mL isopropanol and 2 mL water), 960 μ L CAL, 2.0 MPa H₂, 25 °C, 1200 rpm, 1 h.