

Supplementary Materials: Controllable H₂ Generation by Formic Acid Decomposition on a Novel Pd/Templated Carbon Catalyst

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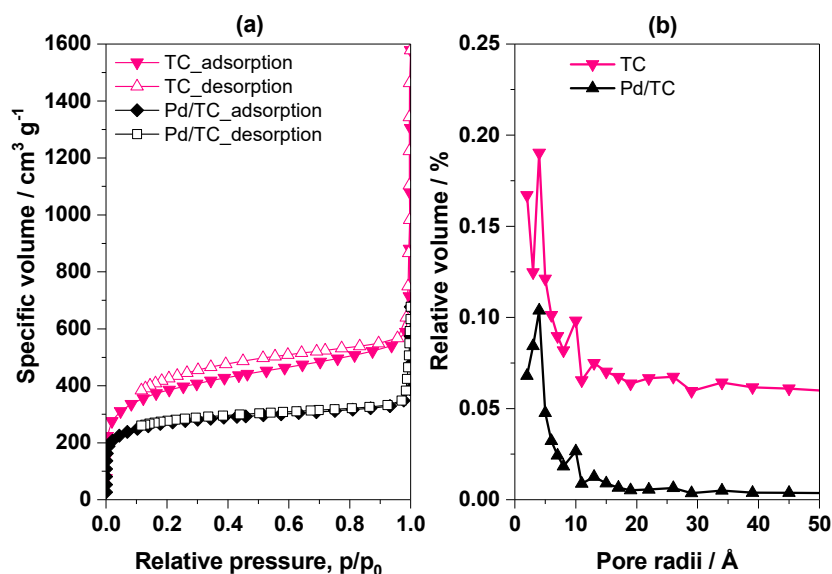


Figure S1. (a) N₂ adsorption-desorption isotherms, and (b) pore size distribution for TC support (pink) and Pd/TC catalyst (black).

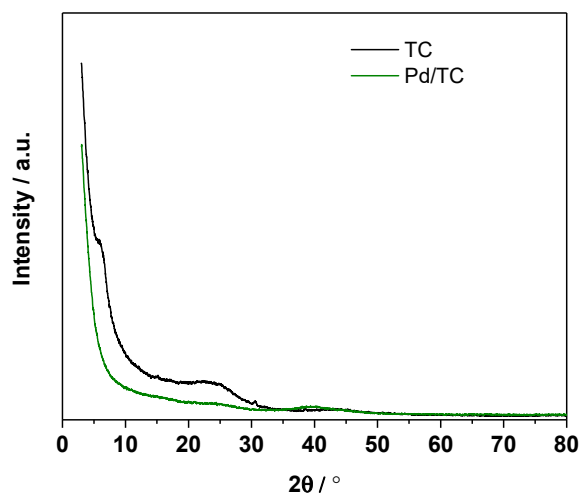


Figure S2. Powder X-ray diffraction patterns of TC and Pd/TC catalyst.

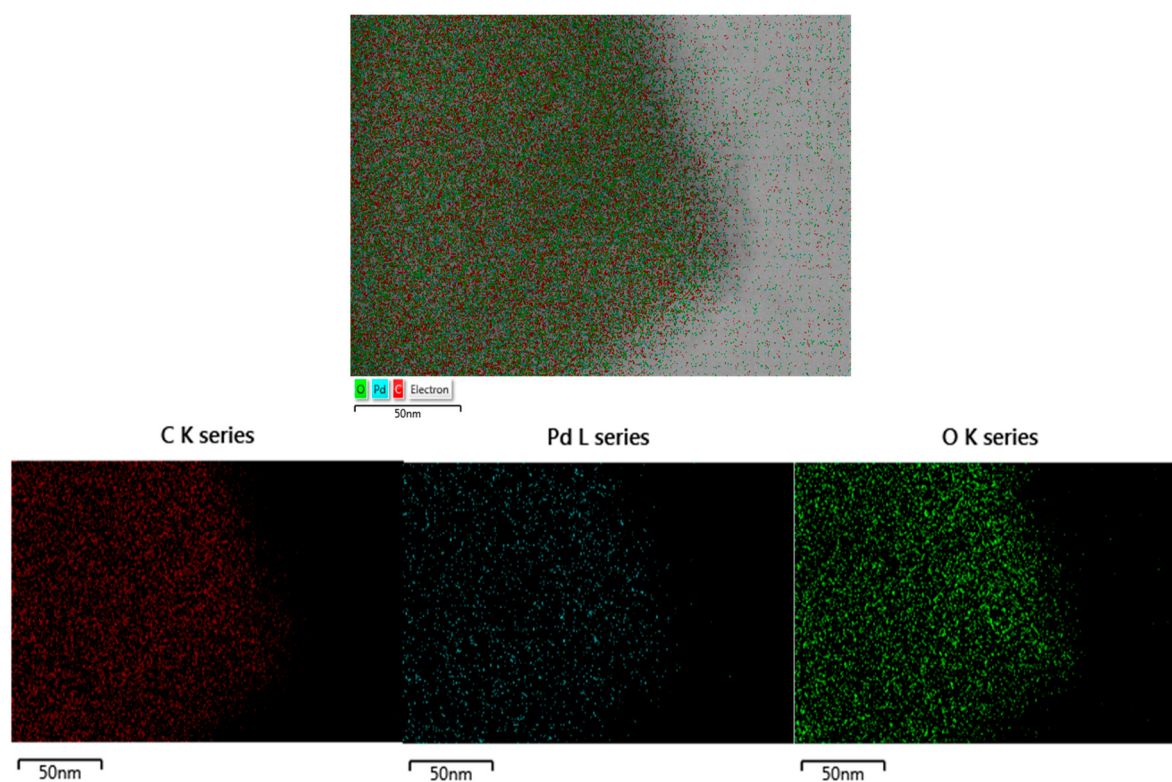


Figure S3. EDS mapping of the Pd/TC catalyst.

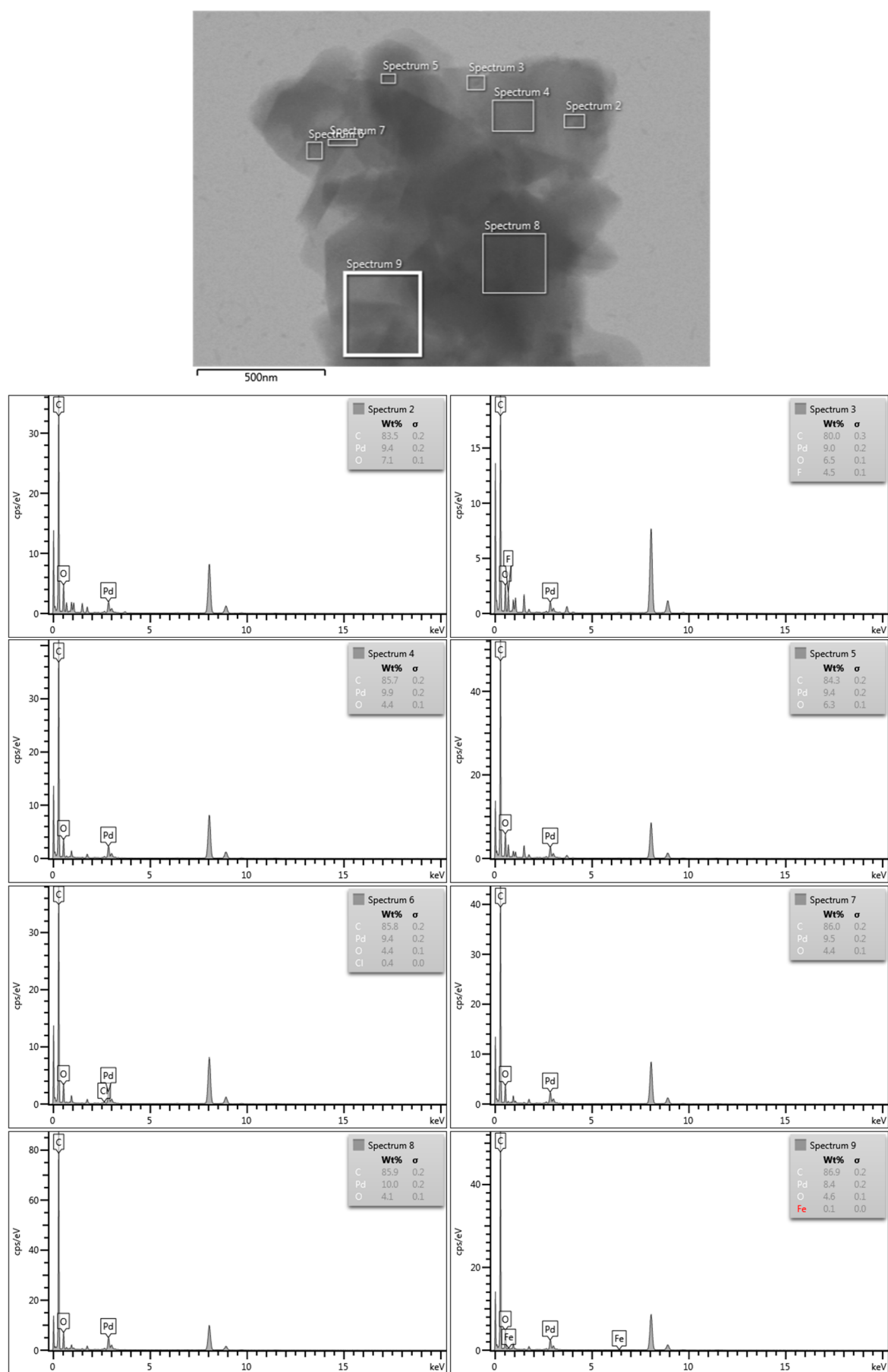


Figure S4. EDX spectra for the Pd/TC catalyst.

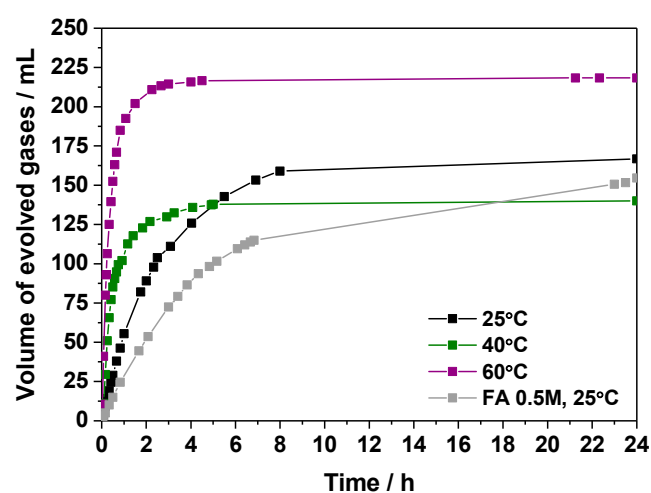


Figure S5. Temperature influence on the volume of evolved gases in the FA:SF = 3:1 system using 20 mg Pd/TC, 10 mL FA 0.5 M + 1.66 mmol SF.

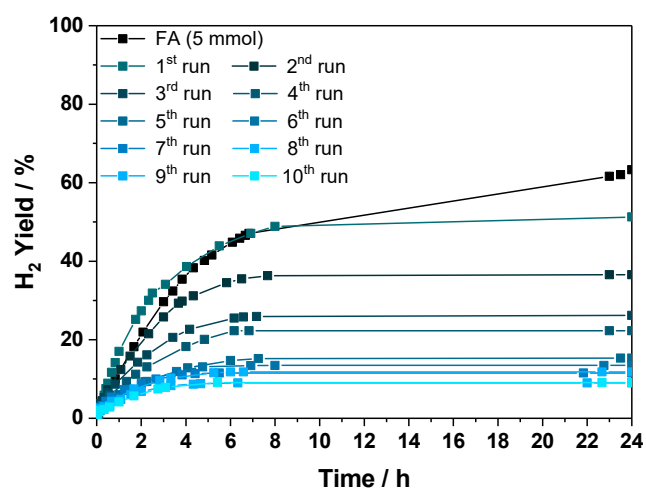


Figure S6. Reusability potential of Pd/TC in the dehydrogenation of FA:SF = 3:1 system using 20 mg catalyst, 10 mL FA 0.5 M + 1.66 mmol SF at 25 °C.