

Supporting Information

Ti-coated nano-SiC supported platinum electrocatalyst for improved activity and durability in direct methanol fuel cells

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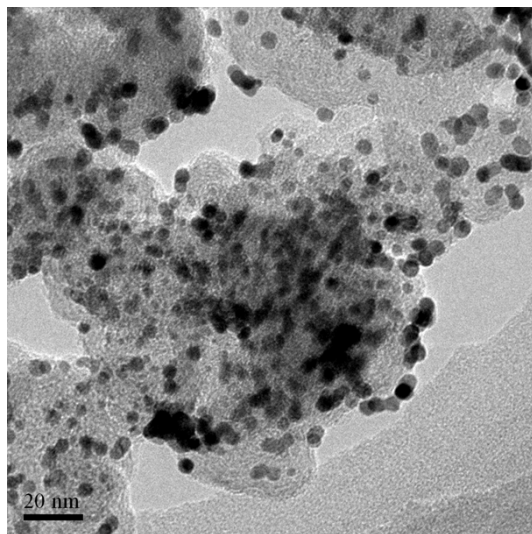


Fig. S1. TEM image of Pt/C electrocatalyst with 32.02 wt% Pt mass percentage prepared with microwave-assisted reduction method.

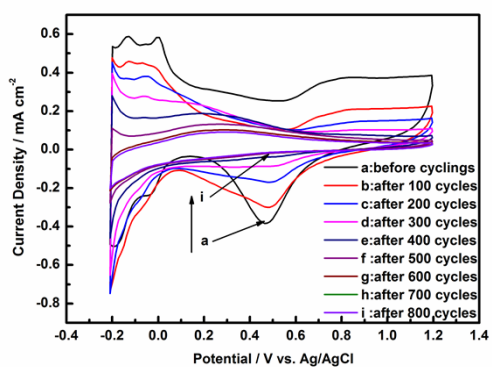


Fig. S2. CV curve of 32.02 wt% Pt/SiC electrocatalyst recorded in 0.5 M H₂SO₄ between -0.2 and +1.2 V (vs. Ag/AgCl) with a 50 mV s⁻¹ sweep rate at room temperature, the currents were normalized by the geometric electrode area (0.19 cm²)

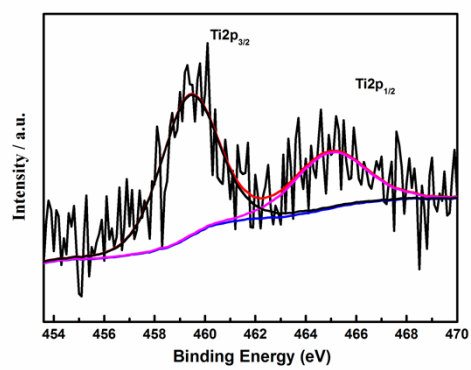


Fig. S3. Ti (2p) regions of the XPS spectra of Pt-Ti/SiC after the ADT test.