Supporting information

Pt-decorated PdFe Nanoparticles as Methanol Tolerant Oxygen Reduction Electrocatalyst

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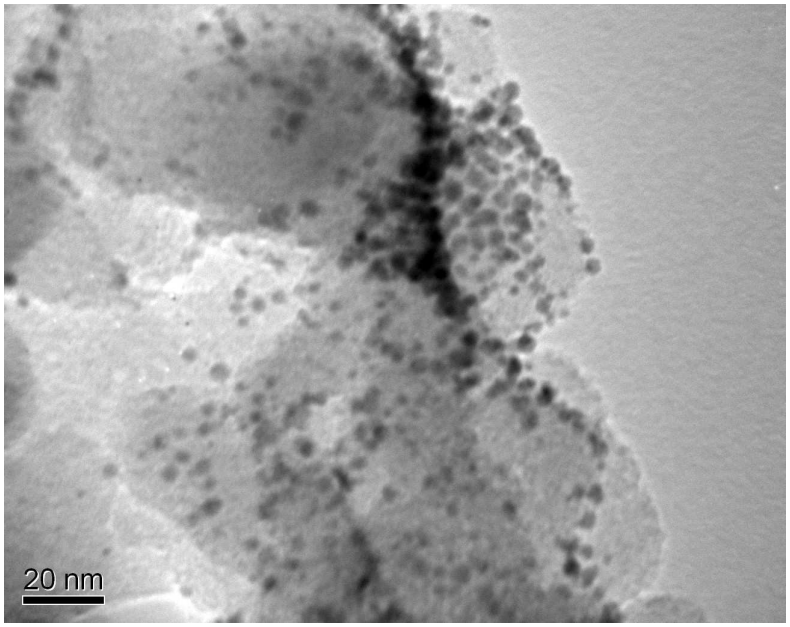

Figure S1. TEM image of commercial Pt/C

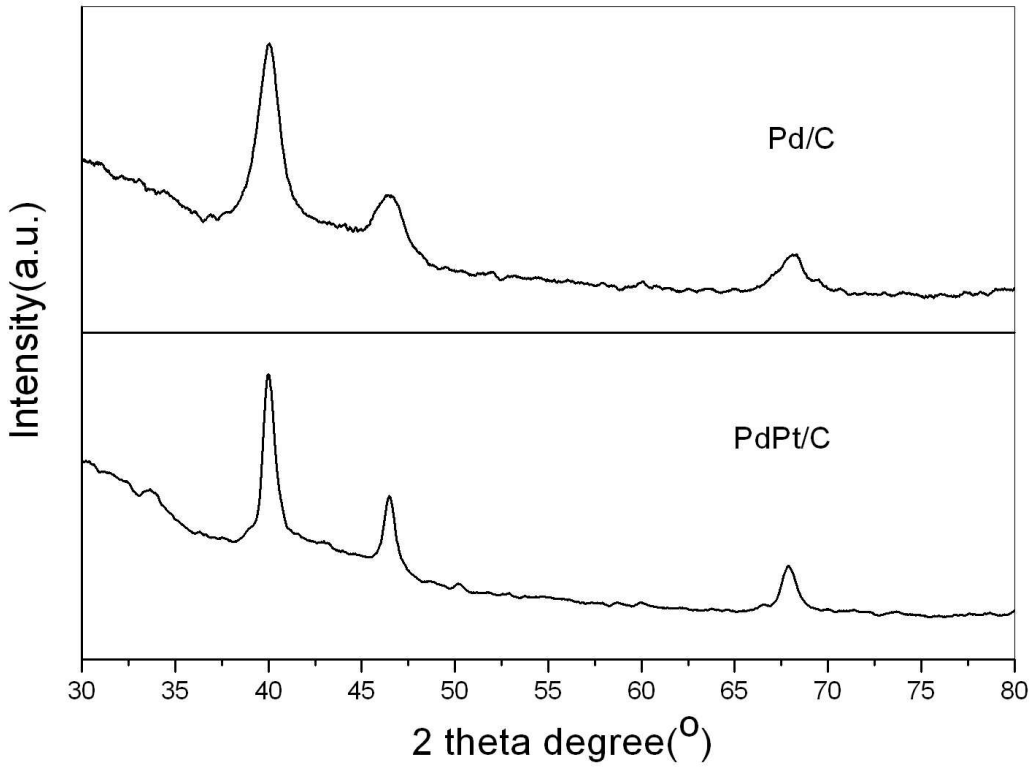

Figure S2. XRD patterns of Pd/C and $Pd_{70}Pt_{30}$/C. (where Pd/C is from E-Tek, $Pd_{70}Pt_{30}$/C was synthesized from Pd/C and H_2PtCl_6 by a method similar to the preparation of PdFe/C)

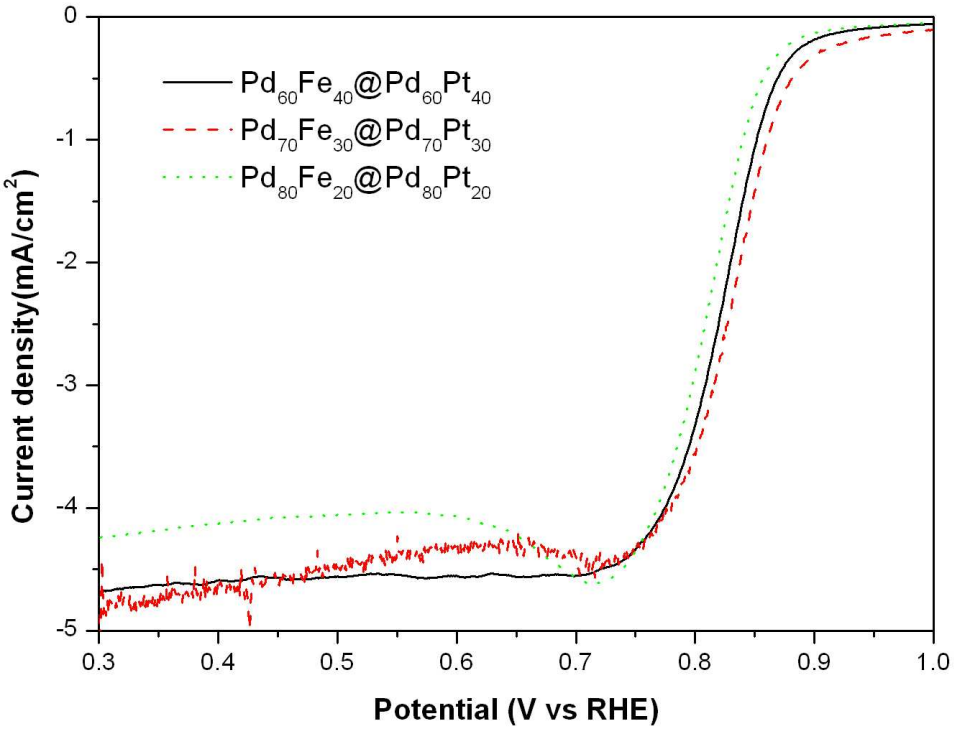

Figure S3. Linear voltammograms of $Pd_{60}Fe_{40}$@$Pd_{60}Pt_{40}$/C, $Pd_{70}Fe_{30}$@$Pd_{70}Pt_{30}$/C (PdFe@PdPt) and $Pd_{80}Fe_{20}$@$Pd_{80}Pt_{20}$/C in oxygen-saturated 0.1 M $HClO_4$ in negative-going scans. Sweep rate: 20 mV s^{-1}; room temperature; 1600 rpm. (Pd_xFe_y@Pd_xPt_y/C were prepared by Pt the galvanic replacement reaction on Pd_xFe_y)