

## Supporting Information

### **Highly dispersed palladium nanoparticles on poly (N<sub>1</sub>, N<sub>3</sub>-dimethylbenzimidazolium) iodide-functionalized multiwalled carbon nanotubes for ethanol oxidation in alkaline solution**

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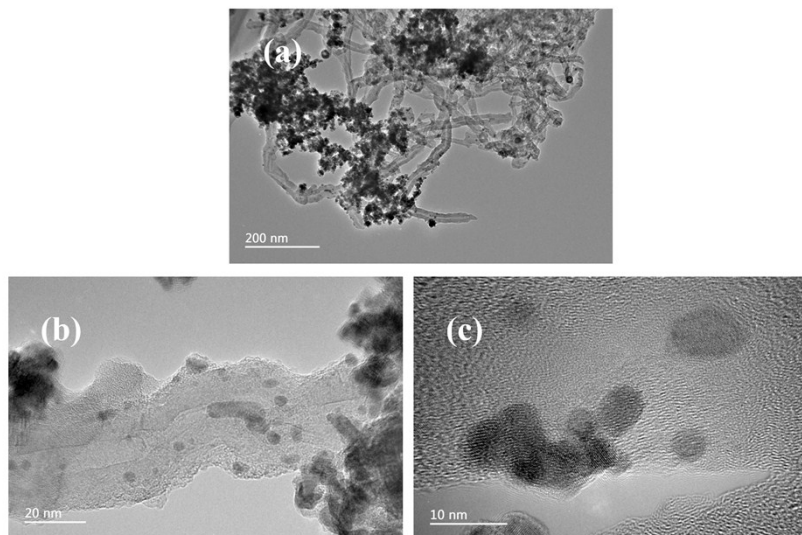
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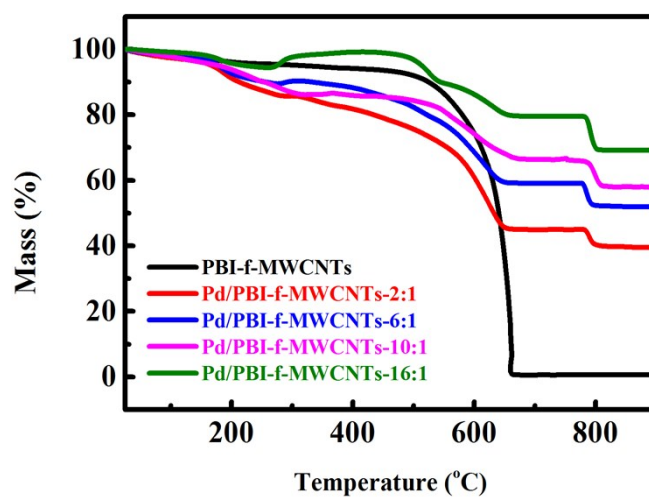
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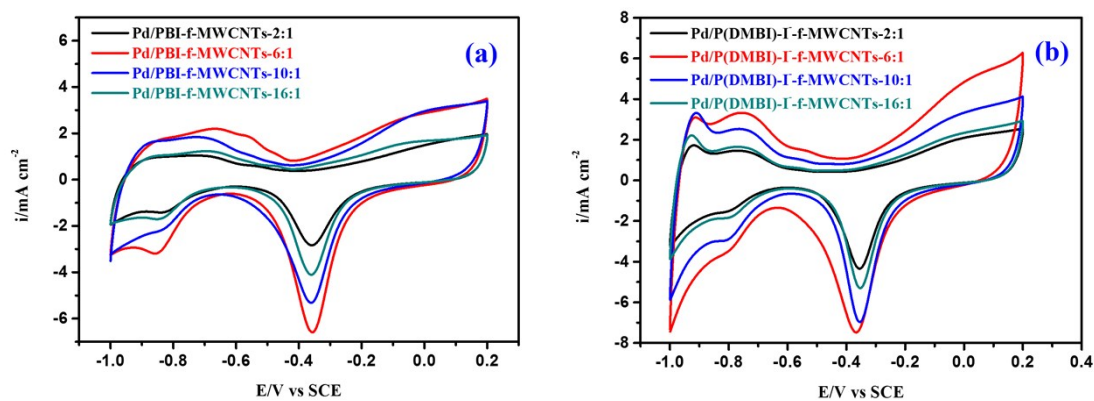
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**Figure S1.** TEM images for Pd/PBI-f-MWCNTs-6:1.



**Figure S2.** TGA curves for PBI-f-MWCNTs and Pd/PBI-f-MWCNTs with different feed ratios.



**Figure S3.** CVs of Pd/PBI-f-MWCNTs and Pd/P(DMBI)-f-MWCNTs with different feed weight ratios.