

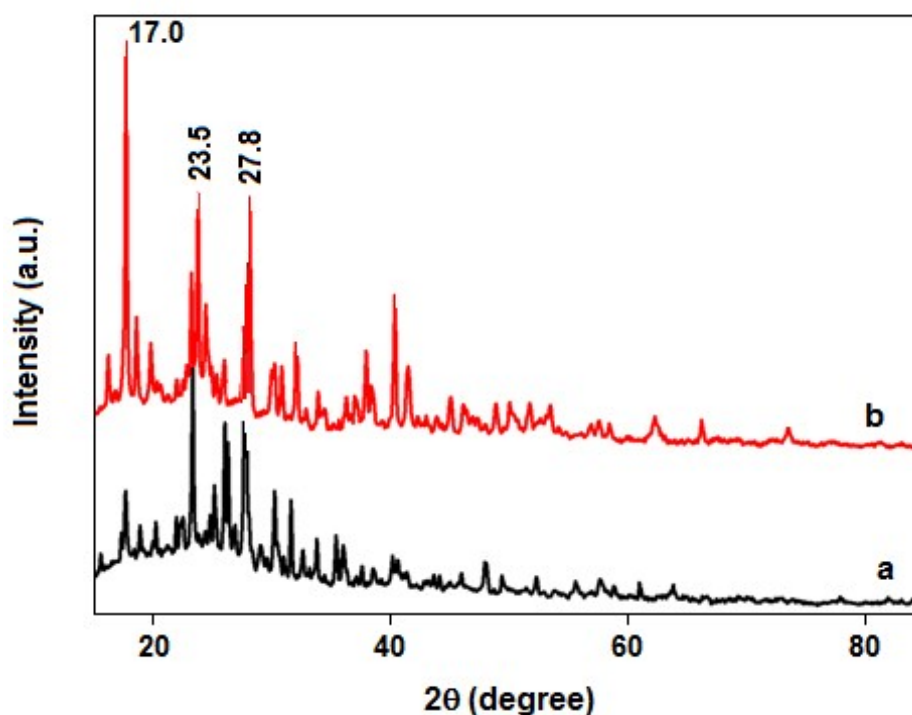
**Supporting Document:**

**Single step synthesis of polymer supported palladium composite: A potential anode catalyst for the application of methanol oxidation**

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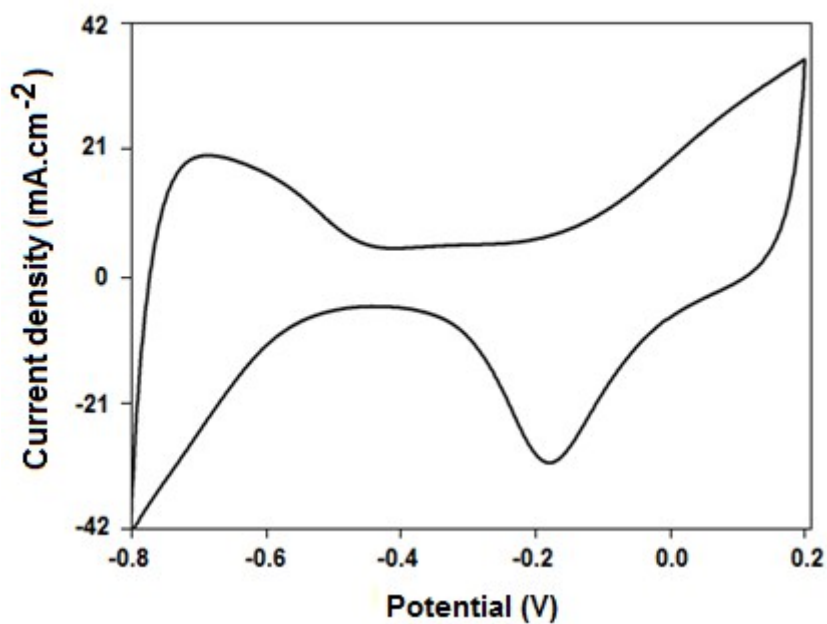
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**Figure S1:**



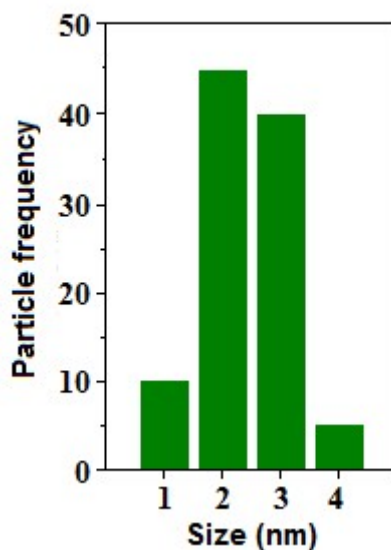
**Figure S1:** The comparative XRD image shows the difference of crystalline behaviour between the samples, pTA (a) and Pd-pTA (b).

Figure: S2



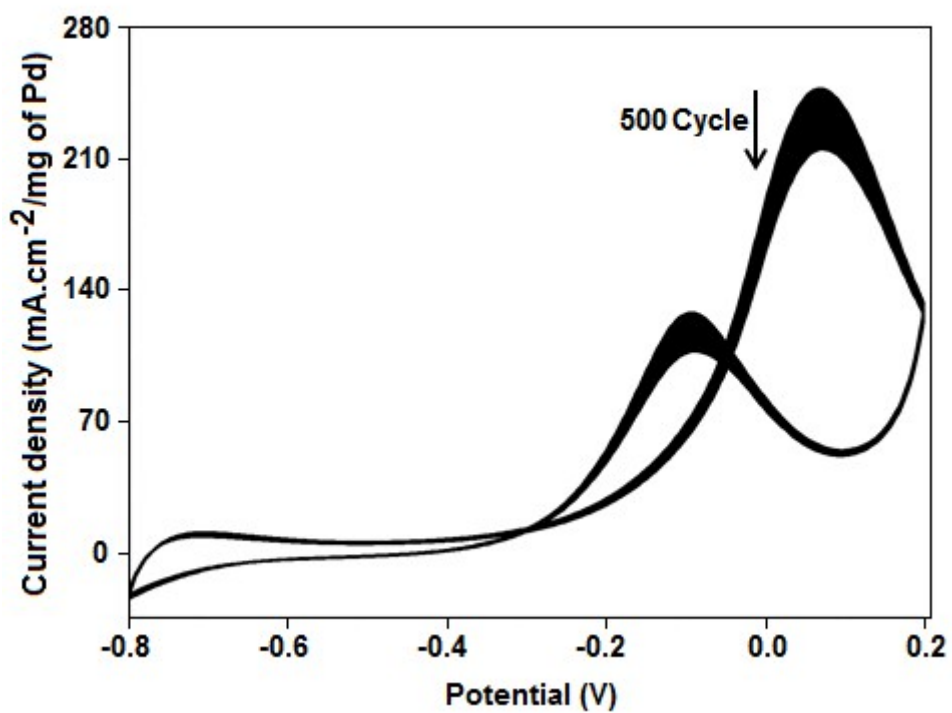
**Figure S2:** Cyclic voltammogram of Pd-*p*TA modified GC electrode in presence of 0.5 mol dm<sup>-3</sup> KOH under the scan rate of 50 mVs<sup>-1</sup>.

Figure: S3



**Figure S3:** The histogram for the palladium nanoparticles, synthesized on the electrode during the methanol oxidation.

Figure: S4



**Figure S4:** The normalized cyclic voltammogram in mA.cm<sup>-1</sup> per mg of Pd loading, for the stability study of Pd-pTA catalyst on glassy carbon electrode in the presence of 1.0 mol. dm<sup>-3</sup> methanol in 0.5 mol. dm<sup>-3</sup> KOH under the scan rate of 50 mV/s for 500 cycles.