Supporting Information

Synergistic Effect of Graphene and Multi-Walled Carbon Nanotubes Composite supported Pd Nanocubes on Enhancing Catalytic Activity for Electro-Oxidation of Formic Acid

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Fig. S1 Controlled growth of Pd along <100> direction (a) by using \(0.625 \times 10^{-2}\) molar \(C_{16}\text{TAB}\), obtained twined structures along with Pd-NCs <100> (b) by using \(1.25 \times 10^{-2}\) molar \(C_{16}\text{TAB}\), obtained pure Pd-NCs <100> and (c) by using \(2.5 \times 10^{-2}\) molar \(C_{16}\text{TAB}\), obtained edge-truncated cubic feature <100>, <110> & <111> directions.
Fig. S2 Schematic representation for the synthesis of Pd nanocubes loaded on different support materials.
**Fig. S3** SEM image of functionalized multi-walled carbon nanotubes (MWCNTs).

**Fig. S4** SEM image of graphene nanosheets (rGO)
Fig. S5 SEM image of 3D porous rGO/MWCNTs composite material.
Fig. S6 Schematic representation for the synthesis of 3D porous GO/MWCNTs composite material.