Supplementary Information

A high performance dye-sensitized solar cell with a novel nanocomposite film of PtNP/MWCNT on the counter electrode

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The elements of Pt and carbon could be distinguished through green color and red color, respectively (Fig. S1a). The dominating nature of PtNPs (green) can be seen not only on the MWCNTs (red) but also all over the substrate. The uniform distribution of the PtNPs on FTO is due to their formation in the bulk of the reduced composite solution of PtNP/MWCNT, followed by their spin-coated deposition. The pertinent spectrum is shown in Fig. S1b, which rendered the atomic percentages of Pt and carbon to be 7.71 and 54.20%, respectively.

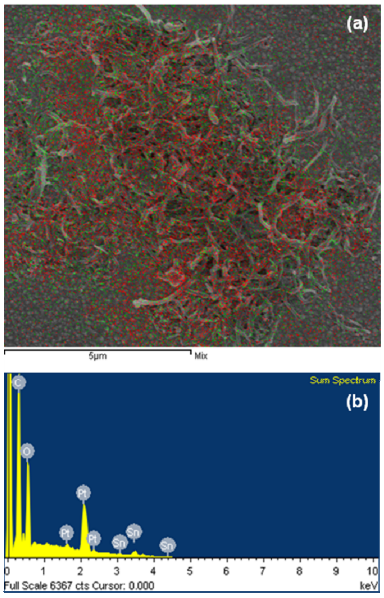

Fig. S1 (a) EDS mapping image of PtNP/MWCNT/FTO and (b) EDS spectrum of PtNP/MWCNT/FTO.