

Electronic Supplementary Information

DNA Assembled Single-Walled Carbon Nanotubes Nanocomposites for High Efficiency Dye-sensitized Solar Cells

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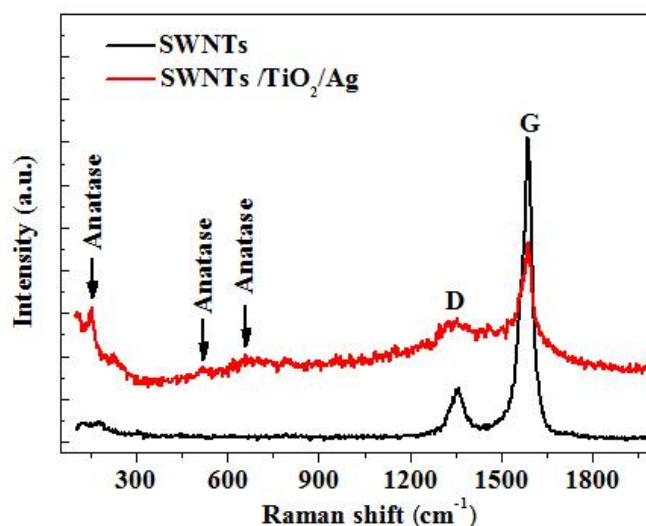


Fig. S1 Raman spectroscopy of SWNTs and SWNTs/TiO₂/Ag nanocomposites.

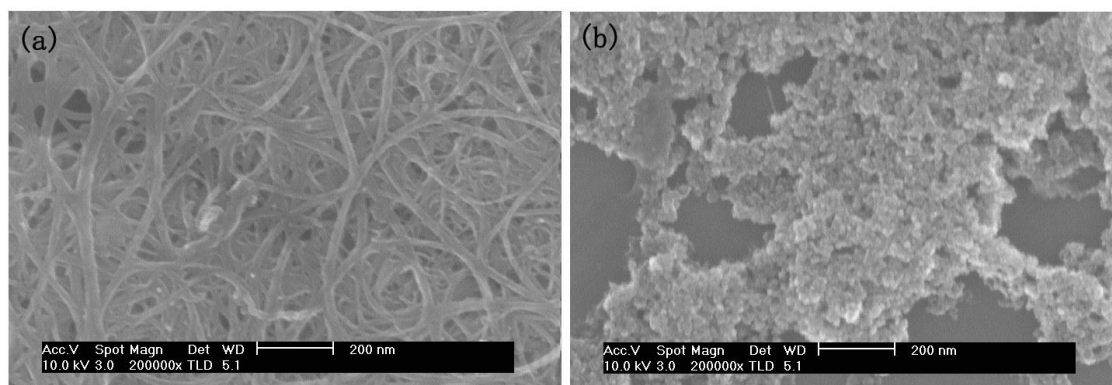


Fig. S2 FESEM images of (a) SWNTs and SWNT/TiO₂/Ag nanocomposites.

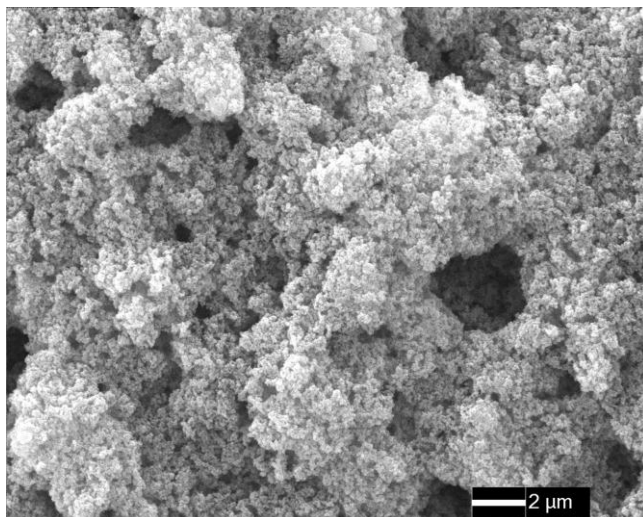


Fig. S3 High-magnification FESEM image of photoanode film. The photoanode film has large number of micro pores.

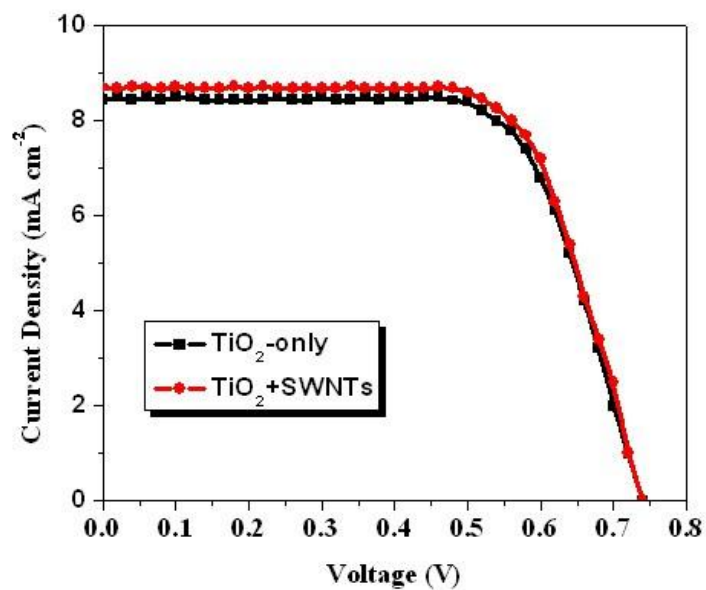


Fig. S4 *J-V* curves of DSSCs fabricated with TiO₂-only and semiconducting SWNTs. The semiconducting SWNTs (0.15 wt%) were directly incorporated into TiO₂ NPs paste to prepare the photoanode film without applying DNA.

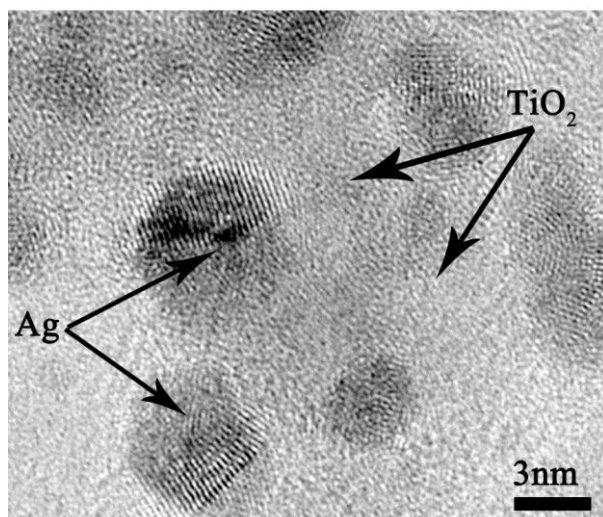


Fig. S5 High-magnification TEM image of SWNTs/TiO₂/Ag nanocomposites.