Electronic Supplementary Material (ESI) for RSC Advances.

Fabrication of conductive, transparent and superhydrophobic thin films consisting of multi-walled carbon nanotubes

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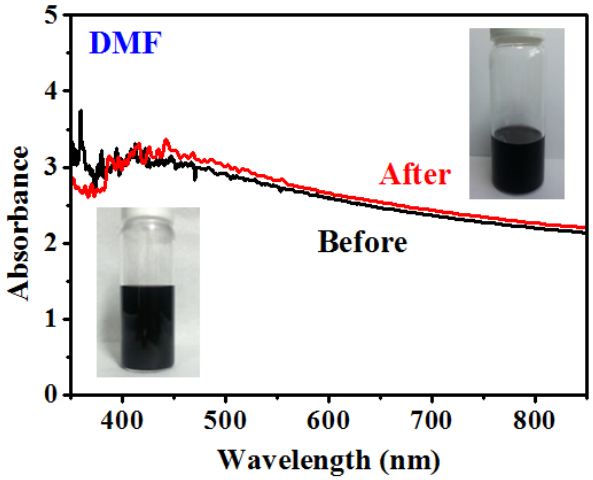
Supporting Information



Supporting Information 1. Absorbance spectra of P-MWCNT/DMF solutions before and after 9 month. Inset images show a view of each MWCNT/DFM solution in vial.

We centrifuged the MWCNTs dispersed solutions and the supernatants containing well-dispersed MWCNTs were collected. Therefore, absorbance of the solution in the UV/Vis range can be directly related to dispersity of MWCNTs in organic solvents. The stability of the dispersed MWCNTs in DMF solution was demonstrated by comparing the absorbance of as-prepared solution and solution after 9 month. No significant change in between absorbance spectra before and after 9 month was observed (Supporting Information 1). This result correlates with stability of the P-MWCNTs in the DMF solution. It was worth mentioning the MWCNTs in DMF solution maintained its dispersity even after 9 month.