

Supplementary Materials: Hydrophilic Modification of Multi-Walled Carbon Nanotube for Building Photonic Crystals with Enhanced Color Visibility and Mechanical Strength

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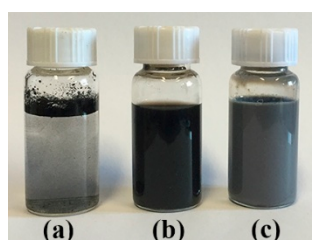


Figure S1. Photographs of dispersion behavior of MWCNTs: (a) crude MWCNTs; (b) modified MWCNTs; (c) homogeneous mixtures of PS emulsion doped with modified MWCNTs.

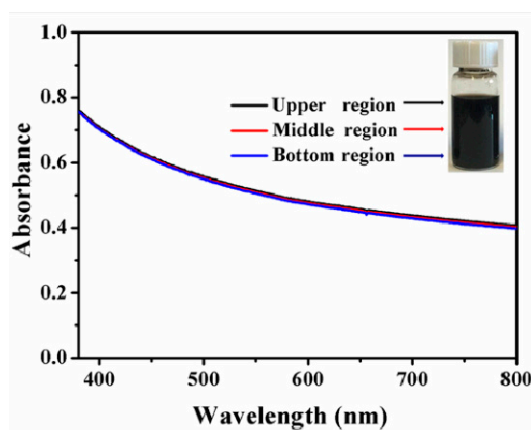


Figure S2. UV-Vis spectra of the upper, middle, and bottom of the MWCNTs dispersion.

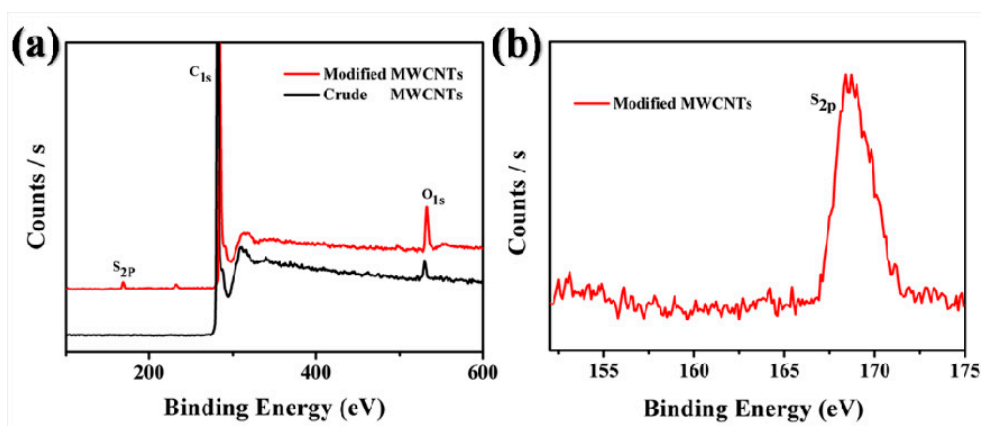


Figure S3. (a) XPS spectra of crude and modified MWCNTs; (b) High-resolution XPS spectrum of S_{2p} core in modified MWCNTs.

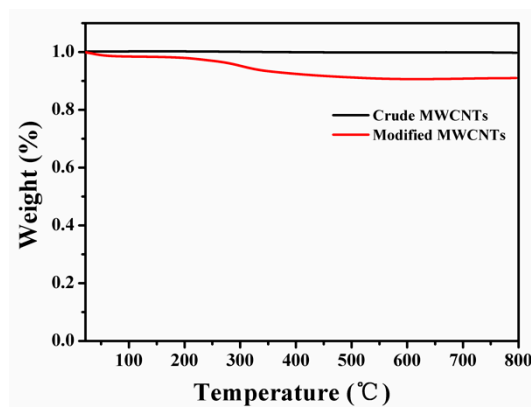


Figure S4. TGA weight loss curves of crude and modified MWCNTs.

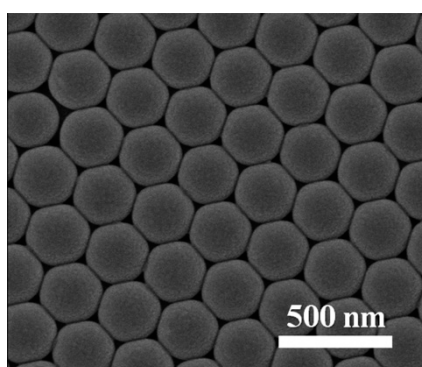


Figure S5. SEM image of pure PS film with hydrodynamic particle size of 317 nm.