

Electronic Supplementary Information

Synergetic treatment of dye contaminated wastewater using microparticles functionalized with carbon nanotubes/ titanium dioxide nanocomposites

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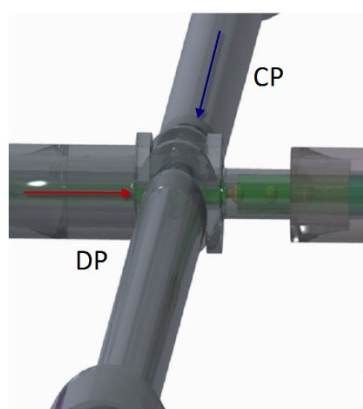


Fig. S1 3D Schematic of the PDMS-MWCNTs/TiO₂ microdroplet generation process.

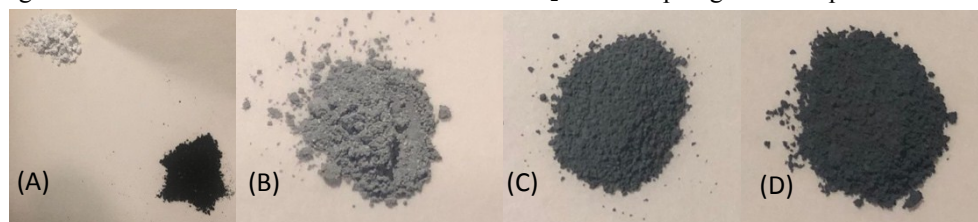


Fig. S2 Pristine TiO₂ is white color (Fig. S2A top left), and with the increasing of carbon contents from 5% to 20%, the colors of composites were gradually transferred from light grey to dark grey in Fig. S2B, C, D for 5%, 10% and 20%, respectively. The color of acid-treated MWCNTs is pure black as shown in Fig. S2A bottom right.

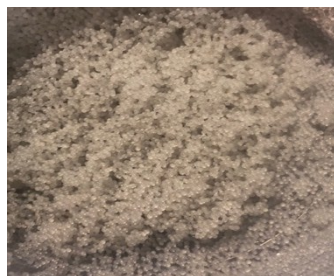


Fig. S3 Collection of PDMS-MWCNTs/TiO₂ microparticles.

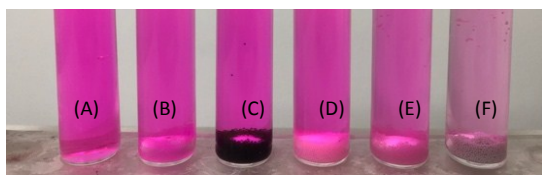


Fig. S4 Color change after photodegradation by different types of PDMS microparticles, from A to F: RhB solution; PDMS-P; PDMS-M; PDMS-T; PDMS-MWCNTs/TiO₂ (1 wt%) and PDMS-MWCNTs/TiO₂ (2 wt%), respectively.