Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.
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SUPPORTING INFORMATION

Construction of emission-tunable nanoparticles based on a TICT-AIEgen: Impact of aggregation-induced emission versus twisted intramolecular charge transfer

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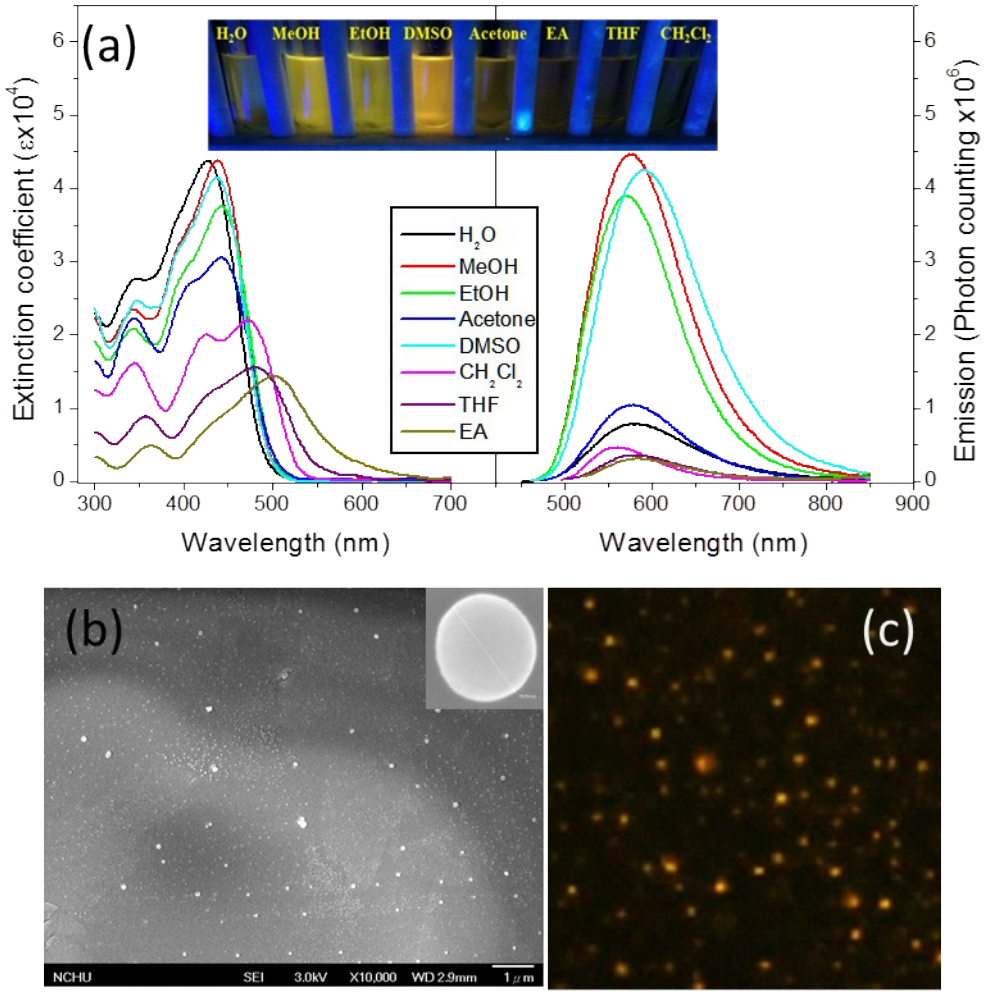

Figure S1. The absorbance (left) and emission (right) spectra for C12P. The insert photo shows the emission color changes under a handheld ultraviolet lamp (365 nm). (b) SEM images and (c) fluorescent microscopy image (a 470±20 nm band pass filter as the excitation light source, with emission collected through a 510 nm long pass filter) of C12P AIE dot preparing from ethanol.

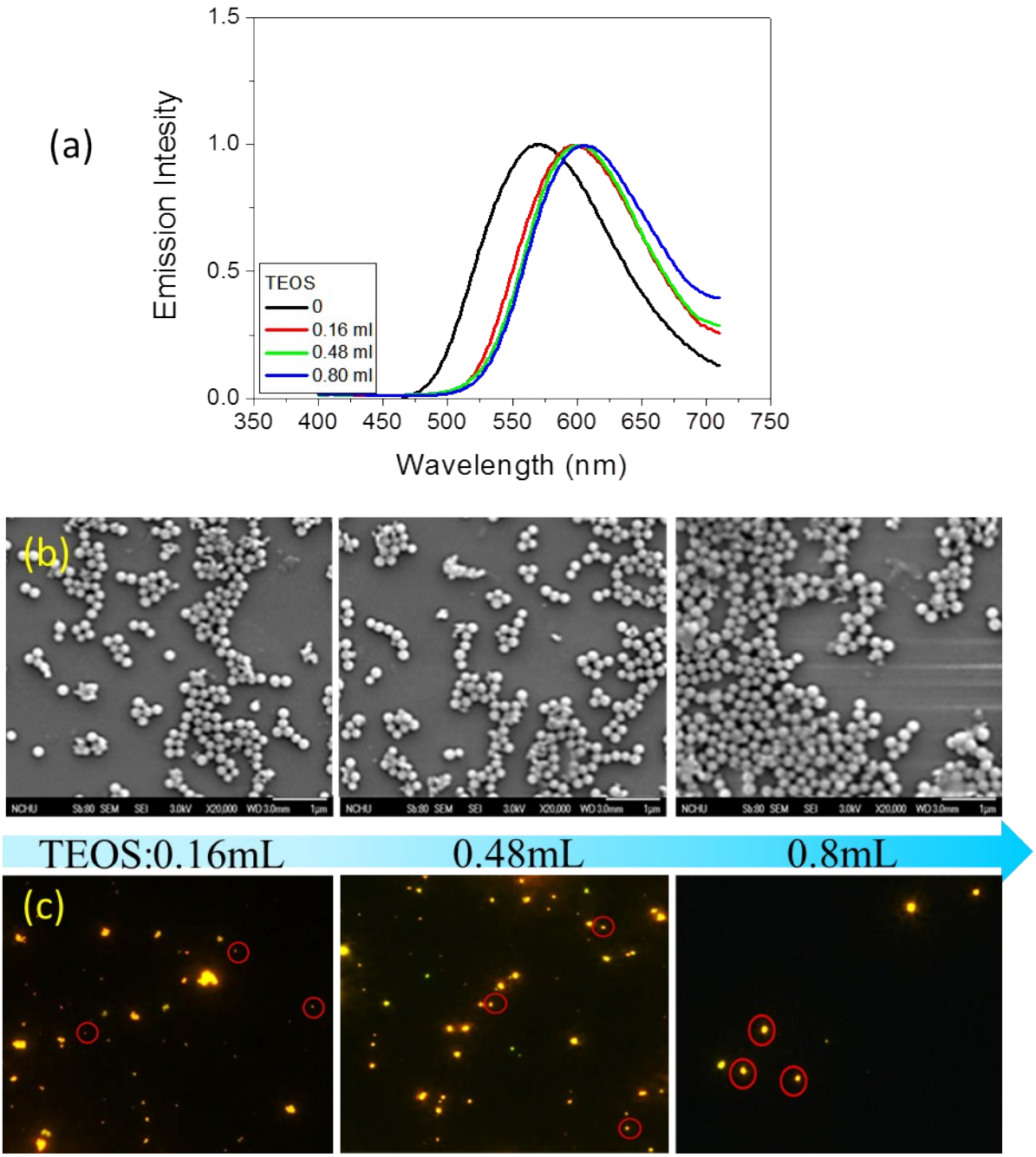

Figure S2. TEOS coating dependent (a) emission spectra; (b) SEM; and (c) fluorescent microscopy images of C12P AIE@OH. Volumes of TEOS= 0.16, 0.48 and 0.8 mL from left to right. (for (c), a 470±20 nm band pass filter as the excitation light source, with emission collected through a 510 nm long pass filter).

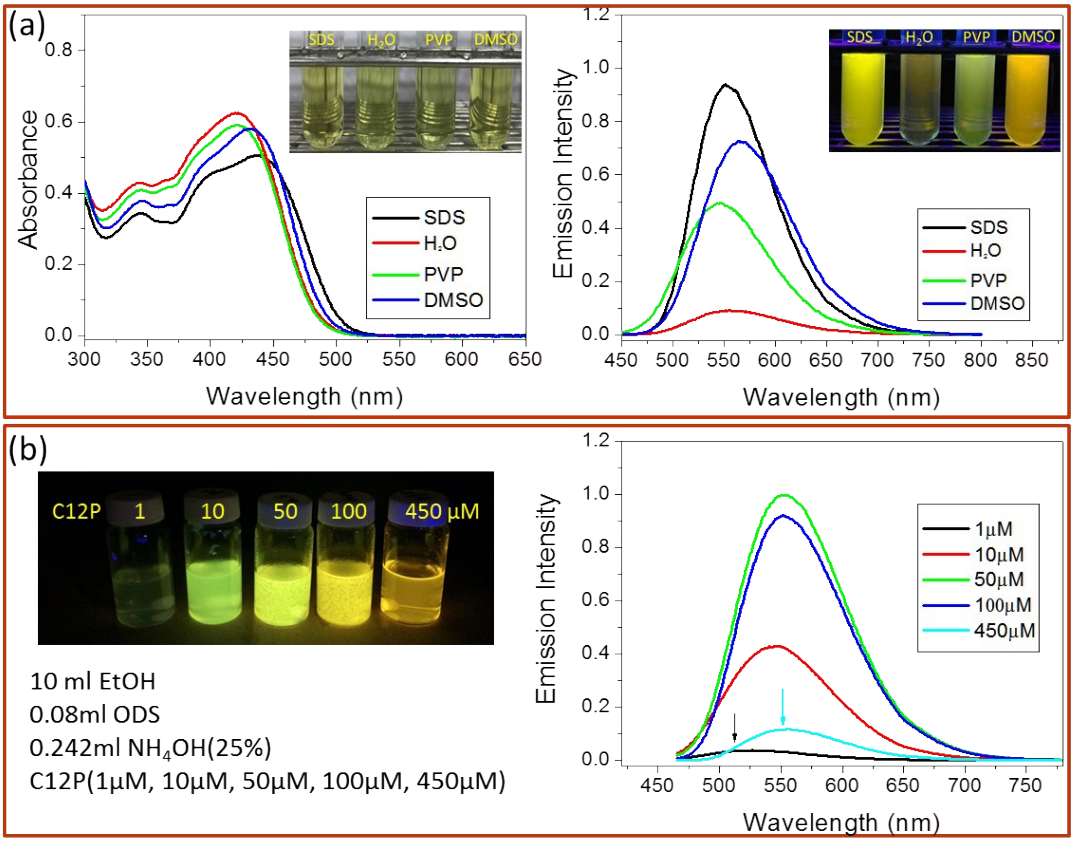

Figure S3. (a) Absorbance (left) and emission (right) spectra of 20 uM C12P in 1 M SDS, H_2O, PVP (average Mw ~55,000) and DMSO solutions, respectively. (b) Photo image and emission spectra of C12P-doping dependent EtOH solutions under constant concentration of ODS solutions.

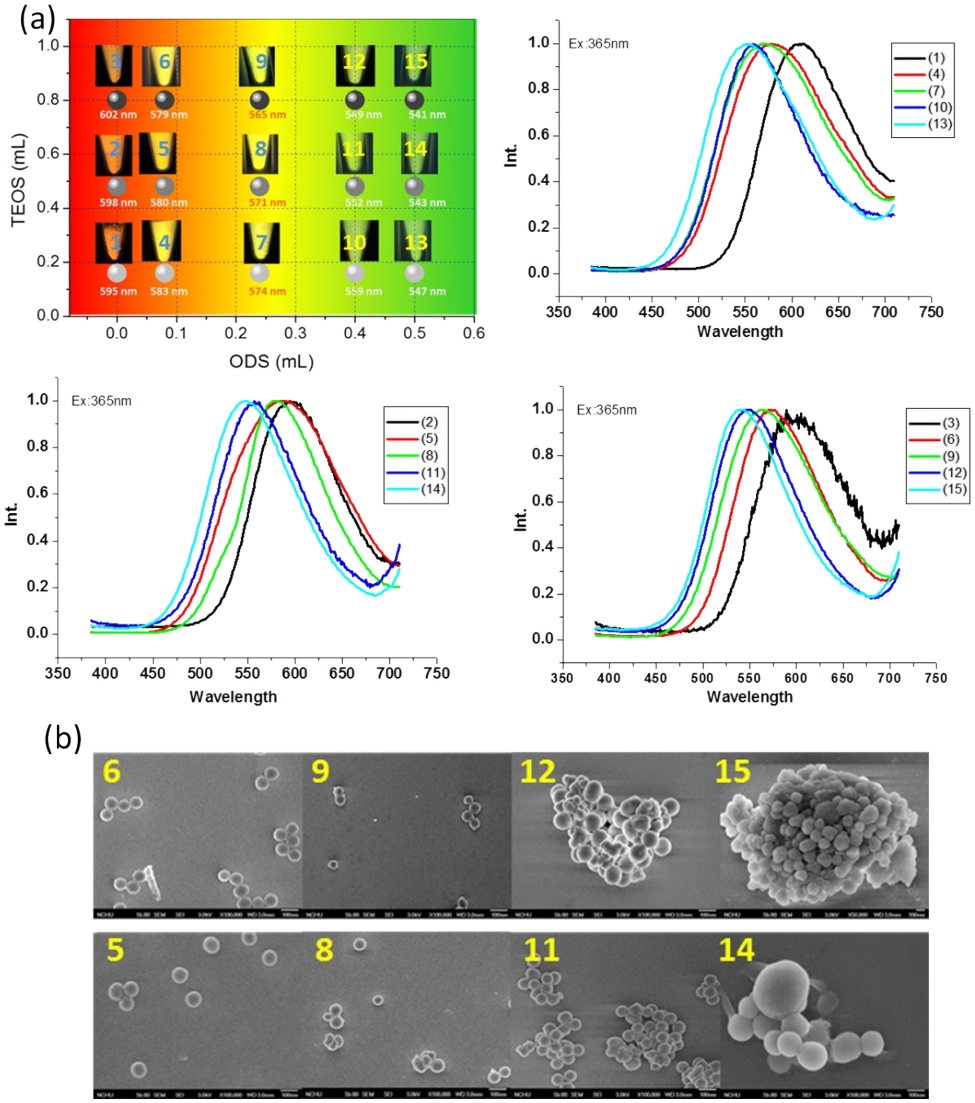

Figure S4. (a) Normalized fluorescence spectra and (b) SEM profiles of collected Hybrid$_x$@OH, when TEOS=0.48 mL and x= 0.08 (number 5), 0.24 (8), 0.4 (11), 0.5 (14); TEOS=0.8 mL and x= 0.08 (number 6), 0.24 (9), 0.4 (12), 0.5 (15). Comparison and data of (1), (2) and (3); (1), (4), (7), (10) and (13) are shown in Figure S2 and Figure 4, respectively.

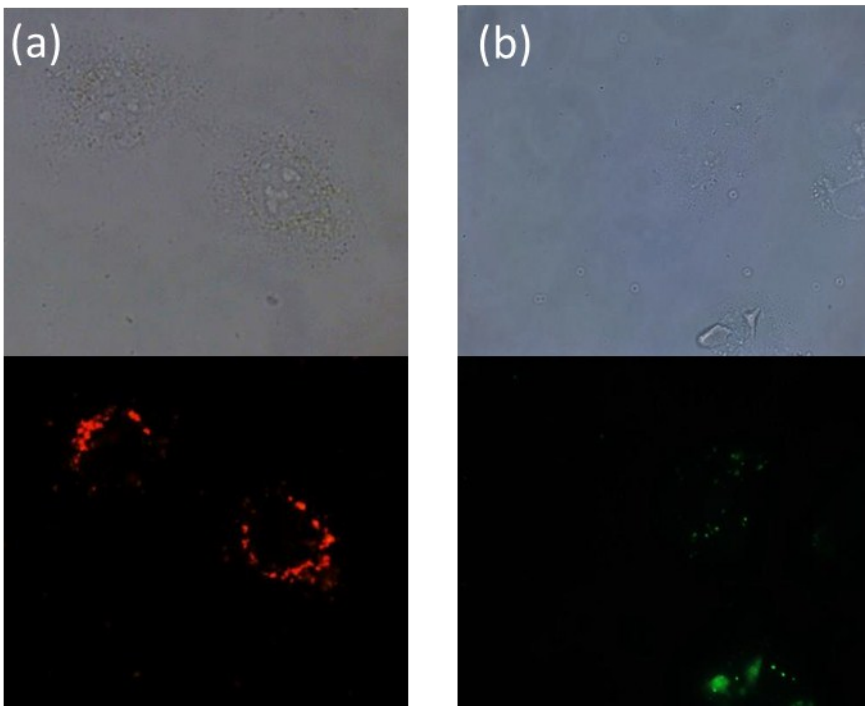

Figure S5. Bright-field (up) and fluorescence (down) images of HeLa cells incubated with 100 ug/mL of (a) AIE@OH; and (b) TICT@OH for 12 h. (ex 470/20 nm, em, 515 lp filter).