

Supplementary Materials

Preparation of 1, 3, 6, 8-Pyrenesulfonic Acid Tetrasodium Salt Doped Silica Nanoparticles and Its Application in Water-based Anti-counterfeit Ink

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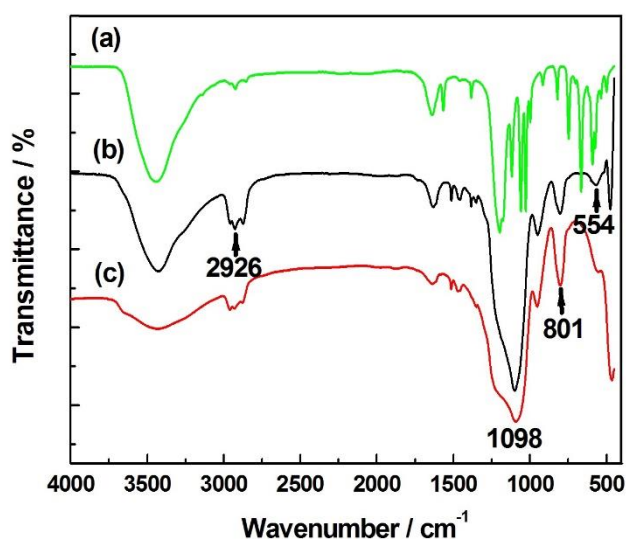


Figure 1. FT-IR spectra of (a) PTSA, (b) the product of PTSA-SiNPs prepared with PDADMAC, and (c) the product of PTSA-SiNPs prepared without PDADMAC.

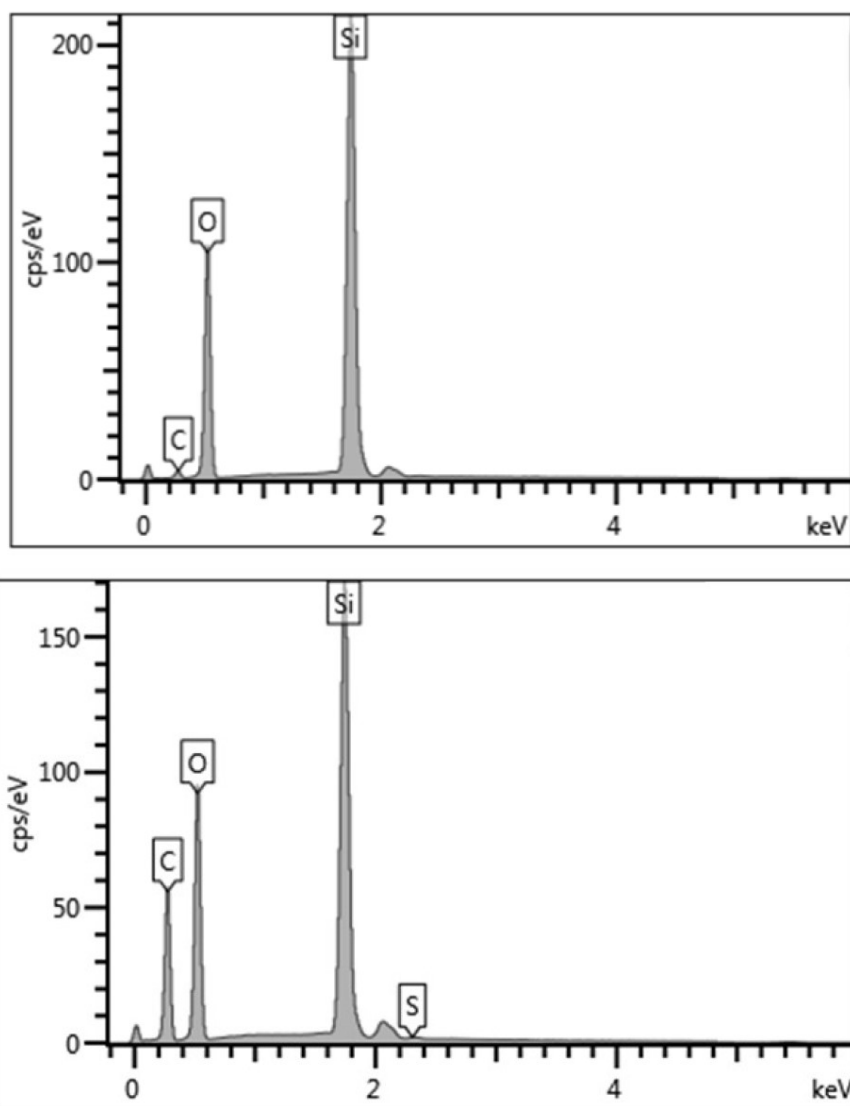


Figure 2. (a) EDS spectra of the product prepared by PTSA-SiNPs with PDADMAC (element mass distribution of PTSA-SiNPs is Si 13.32%, O 37.44%, C 49.54%, S 0.06%, respectively.); (b) EDS spectra of the product prepared by PTSA-SiNPs without PDADMAC (element mass distribution of PTSA-SiNPs is Si 34.60%, O 54.69%, C 10.72%, respectively.).