

Supporting Information (SI)

Itaconic acid – crosslinked biomolecule immobilization approach on amine-functionalized silica nanoparticles for highly sensitive enzyme-linked immunosorbent assay (ELISA)

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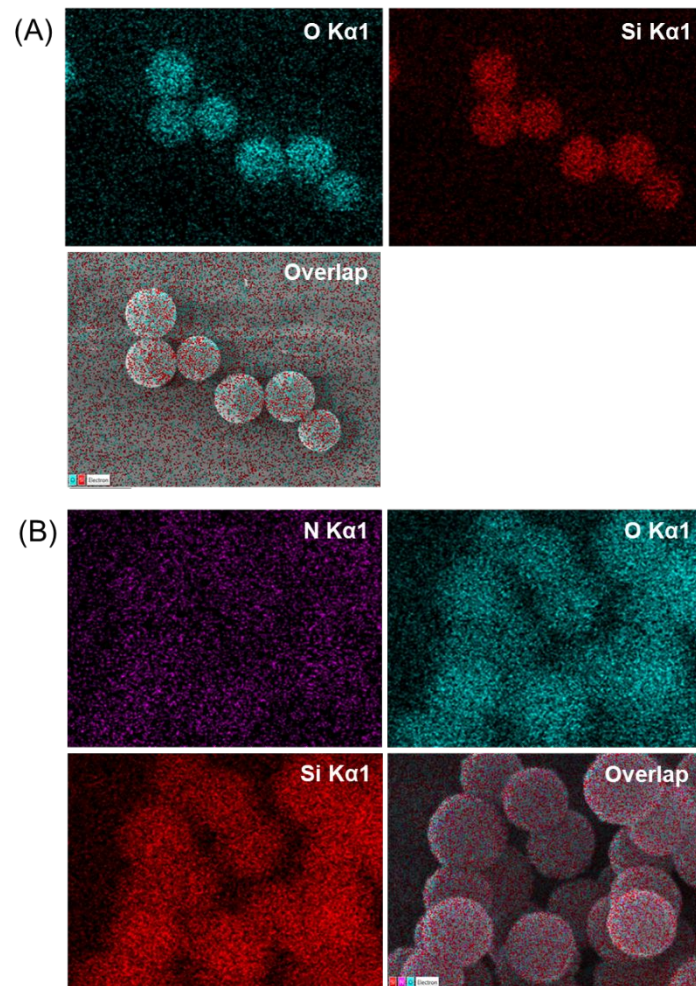


Figure S1. EDS mapping images of SNPs (A) and AFSNPs (B), corresponding to O-K, Si-K, and N-K of the particles.

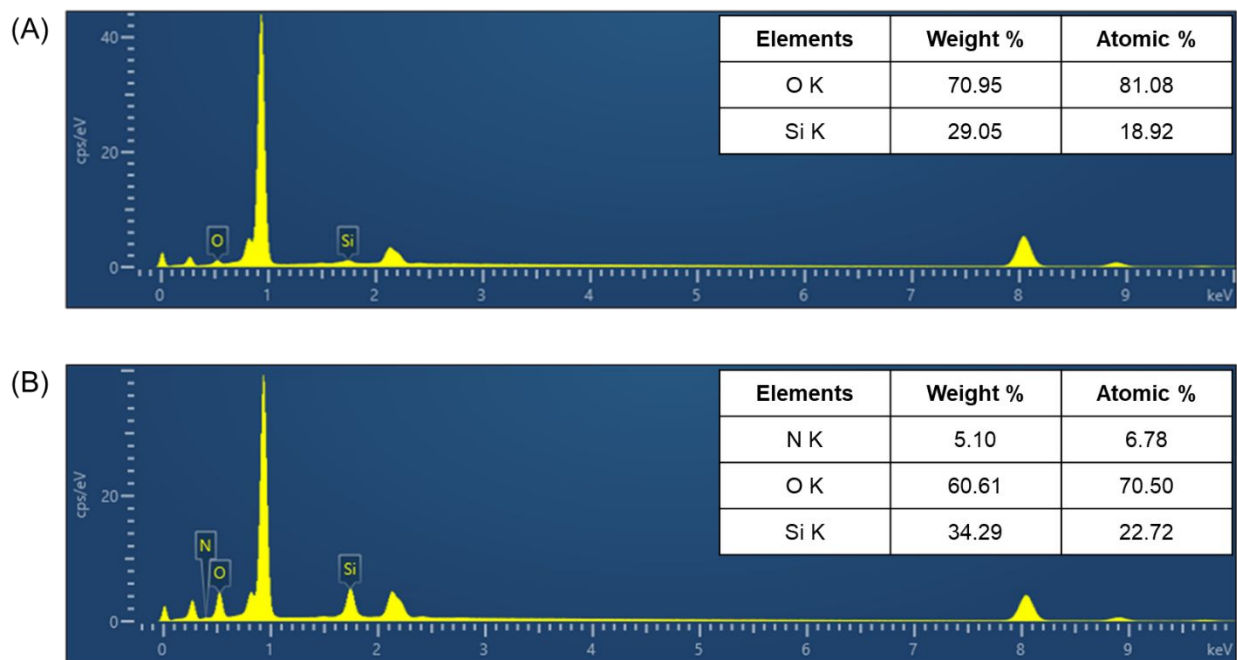


Figure S2. EDS spectrum of (A) SNPs and (B) AFSNPs (inset table: atomic % and weight % of elements).

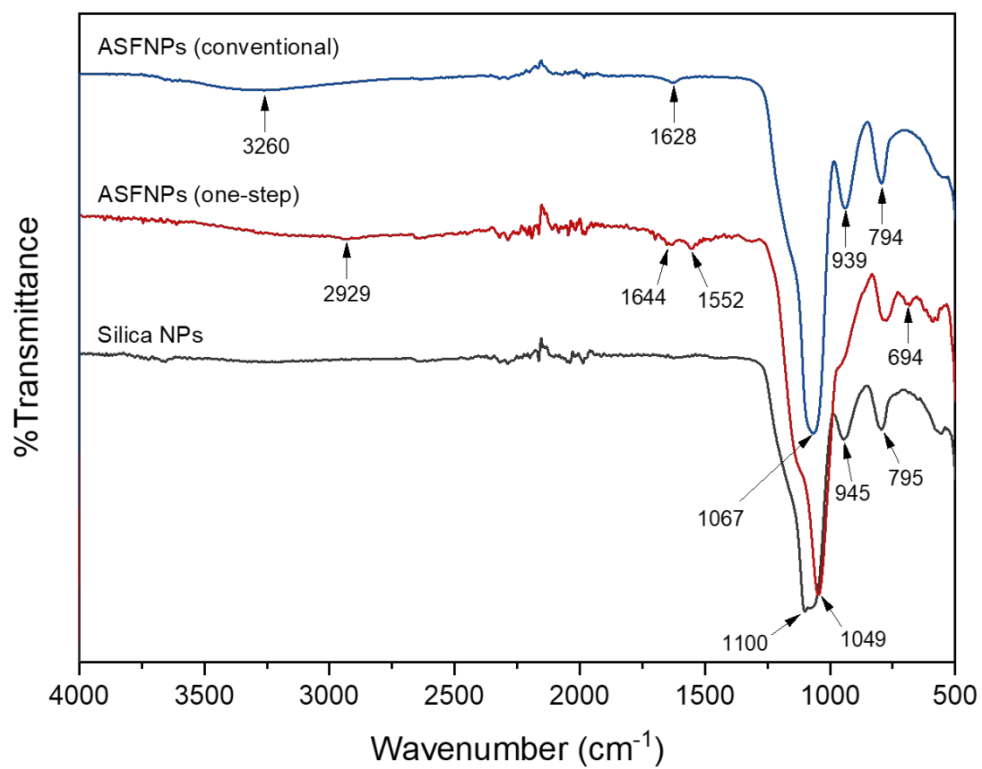


Figure S3. FTIR spectra of SNPs and AFSNPs (synthesized by different methods).

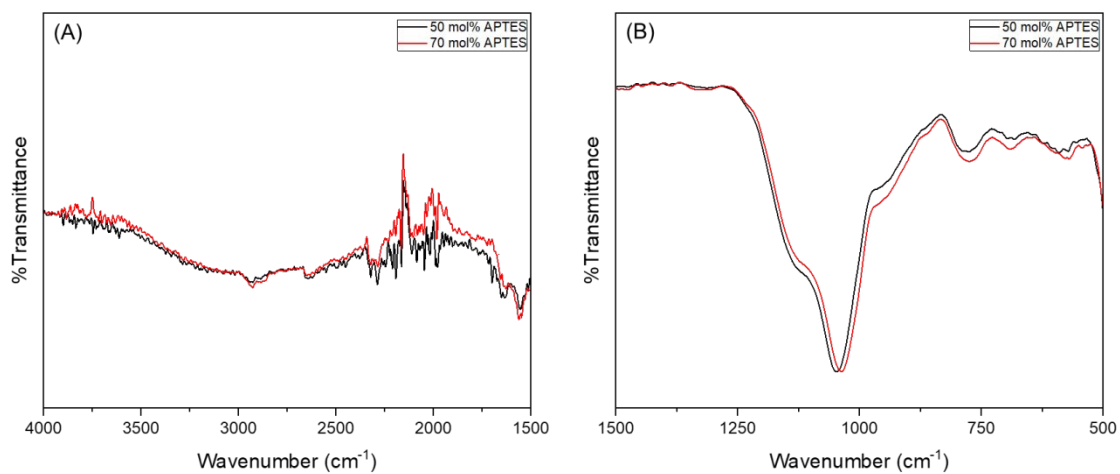


Figure S4. FTIR spectra of AFSNPs with different concentration of APTES (prepared by one-step method); wavenumber (A) 1500 – 4000 cm^{-1} and (b) 500 – 1500 cm^{-1} .