

Supplementary Materials

Construction of Aggregation-Induced Emission Molecule–MnO₂ Composite Nanoprobe and Its Application in Alkaline Phosphatase Detection

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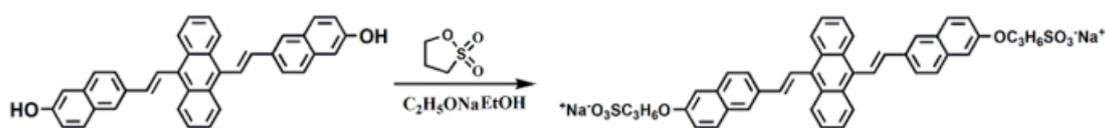


Figure S1. The synthesis route of BSNVA.

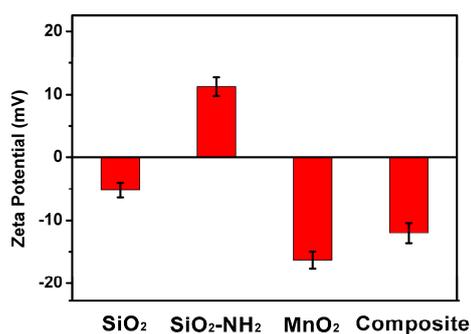


Figure S2. Zeta-potential values of SiO₂ NSs, SiO₂-NH₂ NSs, MnO₂ nanosheet and MnO₂-SiO₂ composite, and the corresponding potential values were respectively -5.21 eV, 11.27 eV, -16.32 eV and -12.03 eV.

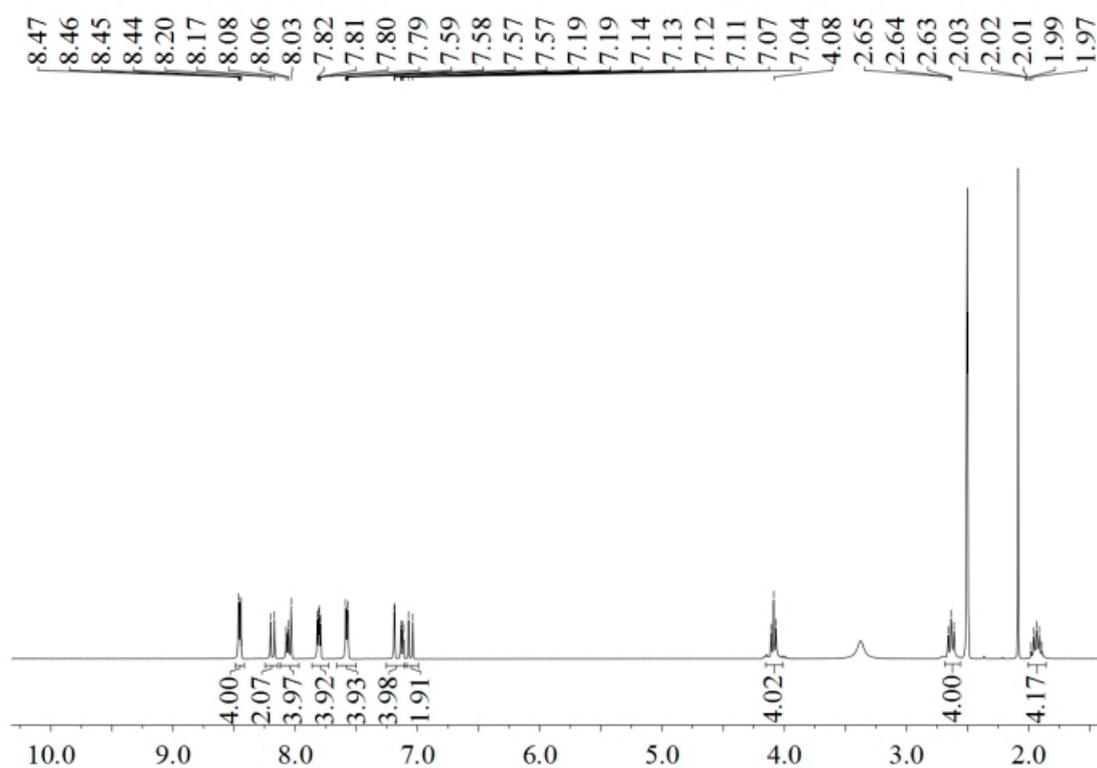


Figure S3. ^1H NMR of BSNVA.

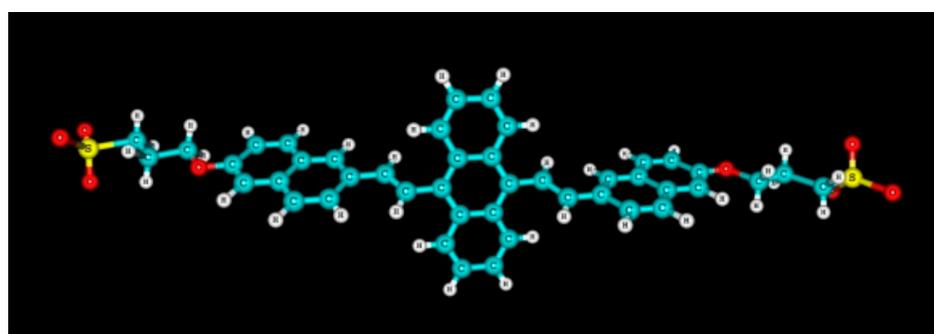


Figure S4. The optimized molecular structure of BSNVA, which is represented as ball and stick, with carbon, oxygen, sulphur, and hydrogen atoms colored cyan, red, yellow, and gray, respectively.

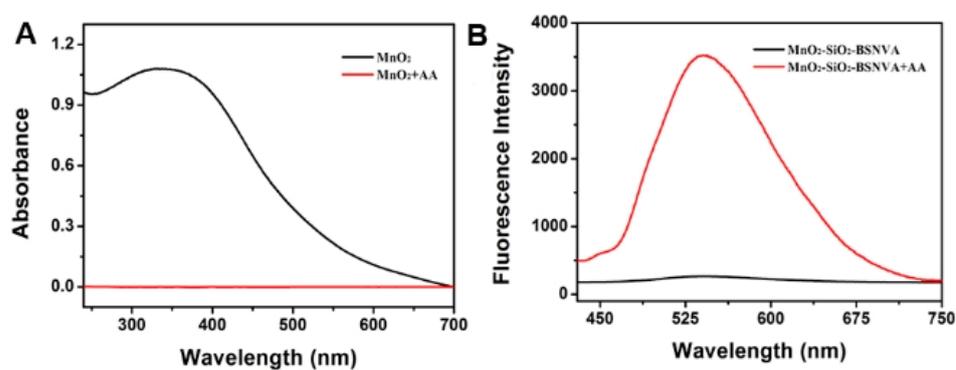


Figure S5. (A) UV-vis absorption spectra of MnO_2 nanosheets (black line), MnO_2+AA (red line). (B) Fluorescence emission spectra of $\text{MnO}_2\text{-SiO}_2\text{-BSNVA}$ (black line), $\text{MnO}_2\text{-SiO}_2\text{-BSNVA}$ in the present of AA (red line).