

Electronic Supplementary Information (ESI)

**Merocyanine 540 adsorbed on polyethylenimine–functionalized
graphene oxide nanocomposites as turn–on fluorescent sensor for
bovine serum albumin**

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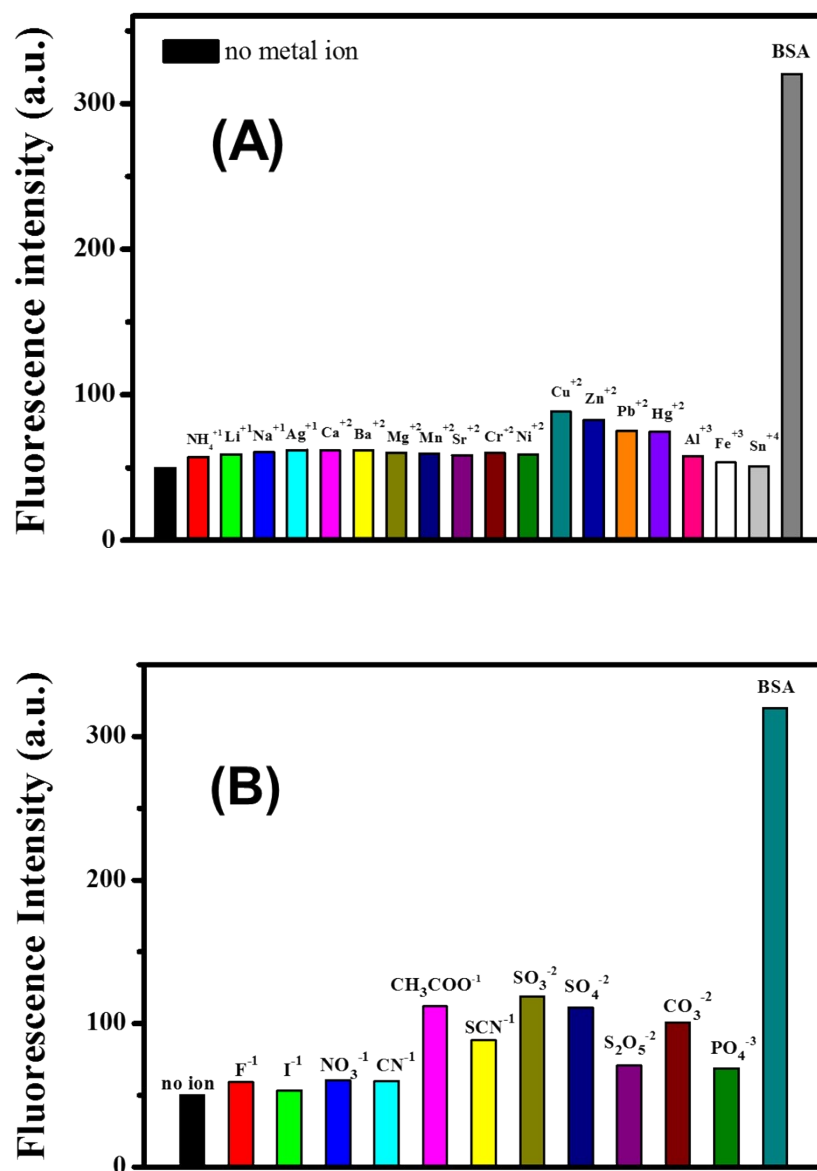


Figure S1. The plot of fluorescence of MC 540 (1.0×10^{-5} M) at maximum versus metal ions (A) and anions (B) with (1.0×10^{-6} M) BSA in $40 \mu\text{g/mL}$ PEI-GO, ($\lambda_{\text{ex}}=520$ nm).

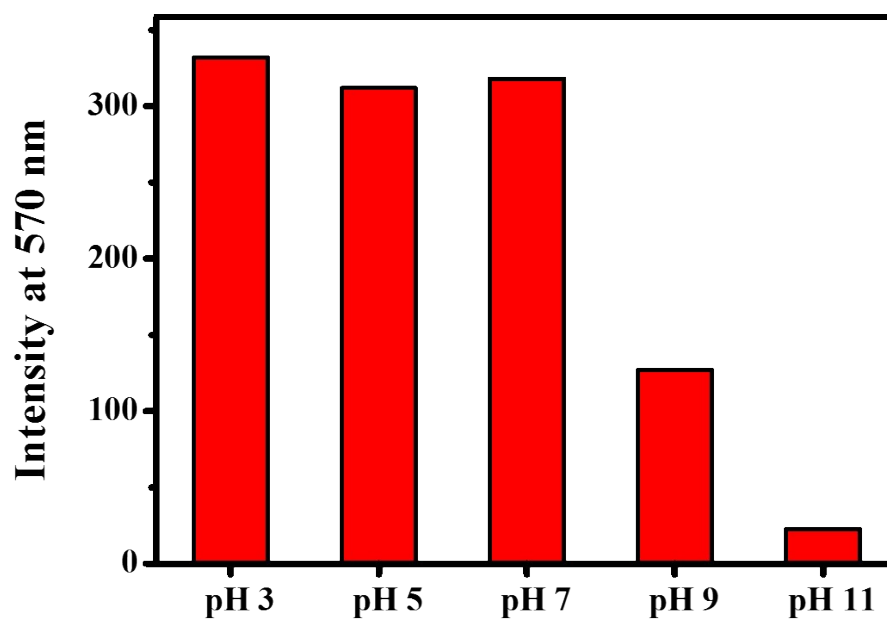


Figure S2. The fluorescence response of MC540/PEI-GO nanocomposites system toward BSA at various pH values. [MC540]= 1.0×10^{-5} M, [PEI-GO]= $40 \mu\text{g/mL}$ and [BSA]= 1.1×10^{-7} M. ($\lambda_{\text{ex}}=520$ nm).

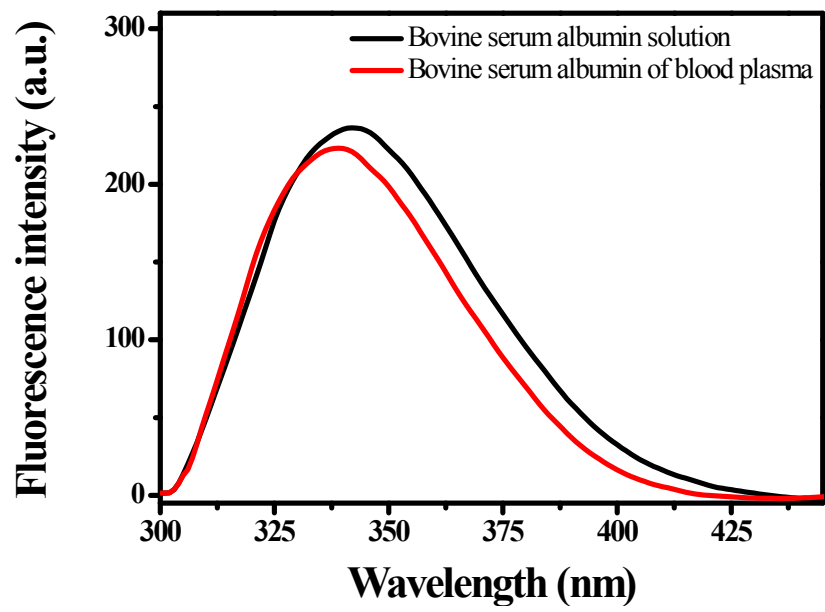


Figure S3. The fluorescence spectra of BSA in the artificial BSA solution and the BSA solution obtained from blood. ($\lambda_{\text{ex}}=295$ nm).