Electronic Supporting Information (ESI)

Synthesis of folic acid, histidine and serine-functionalized and boron and phosphorus-doped graphene quantum dot with excellent yellow luminescence behavior in aqueous/solid state and its use for fluorescence detection of Fe²⁺ in urine

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1. Figures

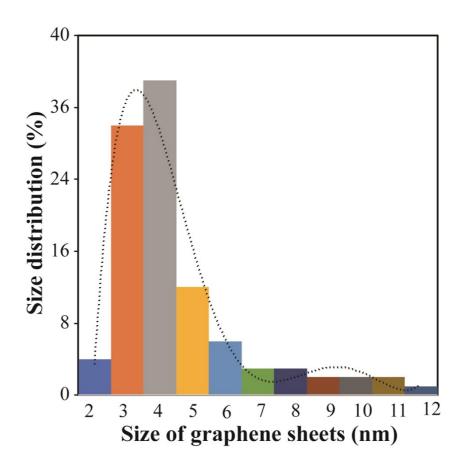


Fig. S1 Size distribution of graphene sheets in FHS-GQD-B/P

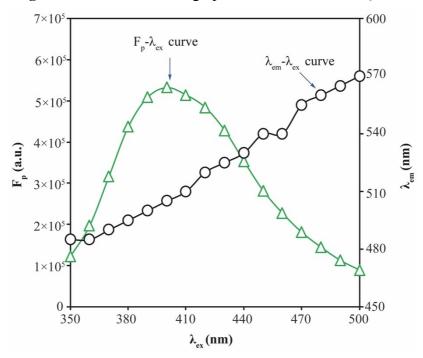


Fig. S2 Plots of excitation wavelength vs. the F_p and the maximum emission wavelength

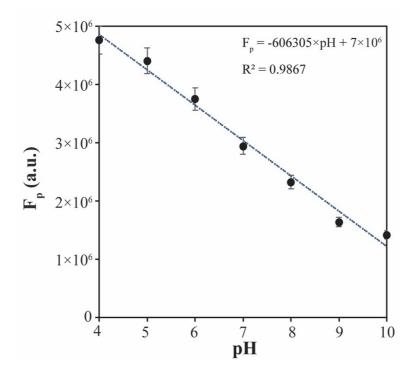


Fig. S3 Relationship curve of pH value with $\ensuremath{F_{p}}$

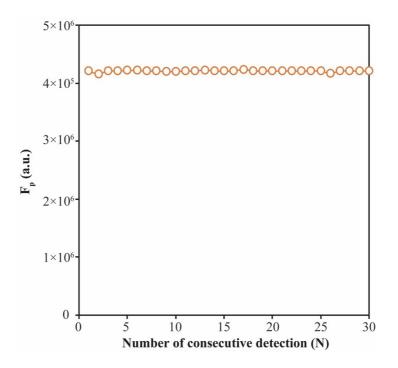


Fig. S4 $F_{\rm p}$ values for different detection times

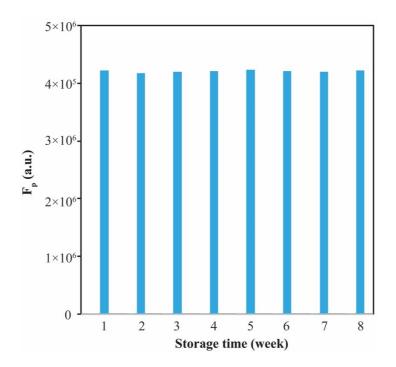


Fig. S5 F_p values for different storage time