

Figure S1 The photographs of S-GQDs (left), S-control sample (middle) and S-free sample (right) at 365 nm UV irradiation.



Figure S2 The photographs of S-GQDs aqueous solution in the range of pH 2-11 at 365 nm UV irradiation.

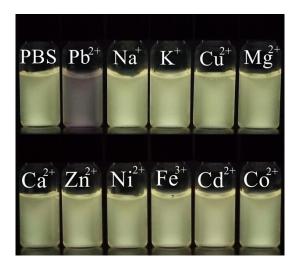


Figure S3 Photographs of S-GQD aqueous solutions with different metal ions at the concentration of 140 μ M under 365 nm UV irradiation.



Figure S4 The photographs of S-free GQDs aqueous solution at the absence (left) and presence (right) of $140.0 \,\mu\text{M} \, \text{Pb}^{2+}$ at $365 \, \text{nm} \, \text{UV}$ irradiation.