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SUPPLEMENTARY MATERIAL



Fig. S1 High resolution O1s spectrum of N,S-GQDs.



Fig. S2 The dynamic light scattering of N,S-GQDs in the presence of 100.0 μ M of (A)Fe³⁺, (B)Cu²⁺, and (C)Ag⁺, respectively.



Fig. S3 (A) FL emission intensity of N,S-GQDs in absence and presence of AA (300 μ M), Cys (300 μ M) or EDTA (300 μ M), respectively. (B) The relative FL ratio of the N,S-GQDs with Fe³⁺(100 μ M) in presence of various quantity of AA. (C) The relative FL ratio of the N,S-GQDs with Cu²⁺ (100 μ M) in presence of various quantity of Cys or EDTA. (D) The relative FL ratio of the N,S-GQDs with Ag⁺ (100 μ M) in presence of various quantity of AA or Cys.



Fig. S4 (A) The relative FL ratio of OH-GQDs in the absence and presence of Fe^{3+} (100.0 μ M), Cu^{2+} (100.0 μ M) or Ag⁺ (100.0 μ M) with or without AA, Cys, or EDTA. (B) The relative FL ratio of OH-GQDs in the absence and presence of Ni²⁺ (100.0 μ M), Pb²⁺ (100.0 μ M) or Hg²⁺ (100.0 μ M) with or without AA, Cys, or EDTA.