Electronic Supplementary Information

Purification of Nitrogen-doped graphene quantum dots via liquid-liquid extraction system of Tetrahydrofuran-(NH₄)₂SO₄-Water and its application to sensitive iron (III) ions determination

WenJun Zhang,* Shaokang Tang, Shaopei Zhang and Yi Chen

School of Chemical Engineering, Hebei University of Technology, Tianjin 300130, China

*Correspondence information: Wenjun Zhang, Institute of Chemical Technology, Hebei University of Technology, Tianjin, 300130, China, E-mail: wjzhang@hebut.edu.cn. Fax: +022 6020 4294.

**Figure S1.** plot of \( \frac{F_0 - F}{F_0} \) versus concentration of Fe³⁺ (0.20-120 μM). \( F_0 \) and F are the FL intensities at 435 nm in the absence and presence of Fe³⁺ ions, respectively.