Electronic Supplementary Material (ESI) for Analytical Methods.

B, N-Co-doped Graphene Quantum Dots as Fluorescence Sensor for Detection of Hg^{2+} and F^- Ions

Panxing Yang, Jie Su, Ruiwei Guo, Fanglian Yao, Caideng Yuan*

Supporting Information

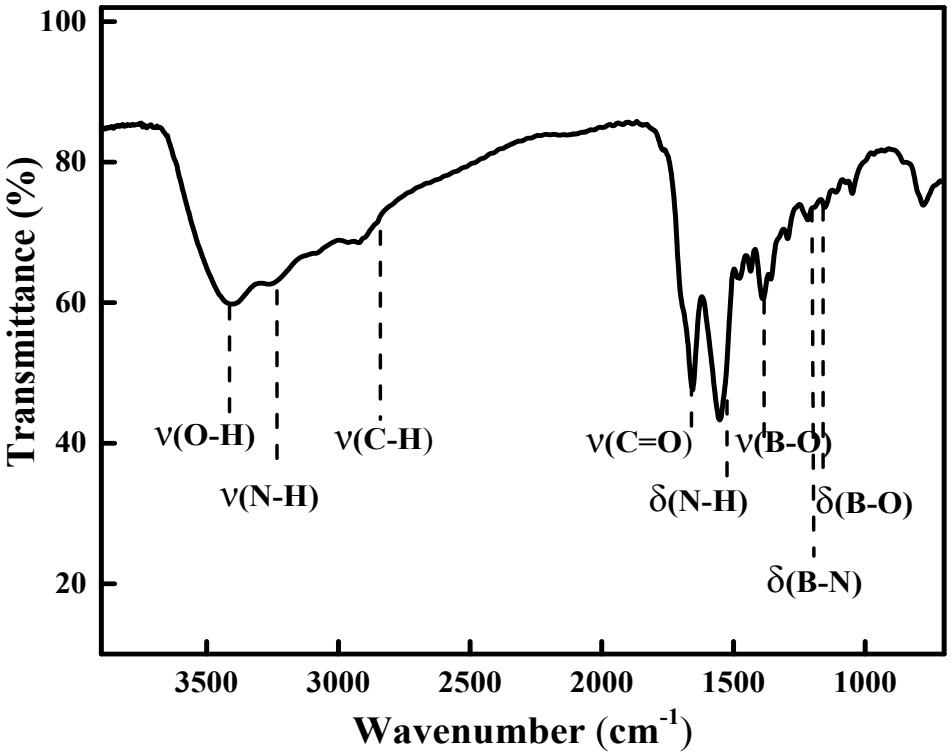

Figure S1. FTIR spectrum of B, N-GQDs.

Department of Polymer Science and Engineering, School of Chemical Engineering and Technology, Tianjin University, Tianjin 300350, P. R. China.
* Corresponding author. E-mail: cdyuan@tju.edu.cn.

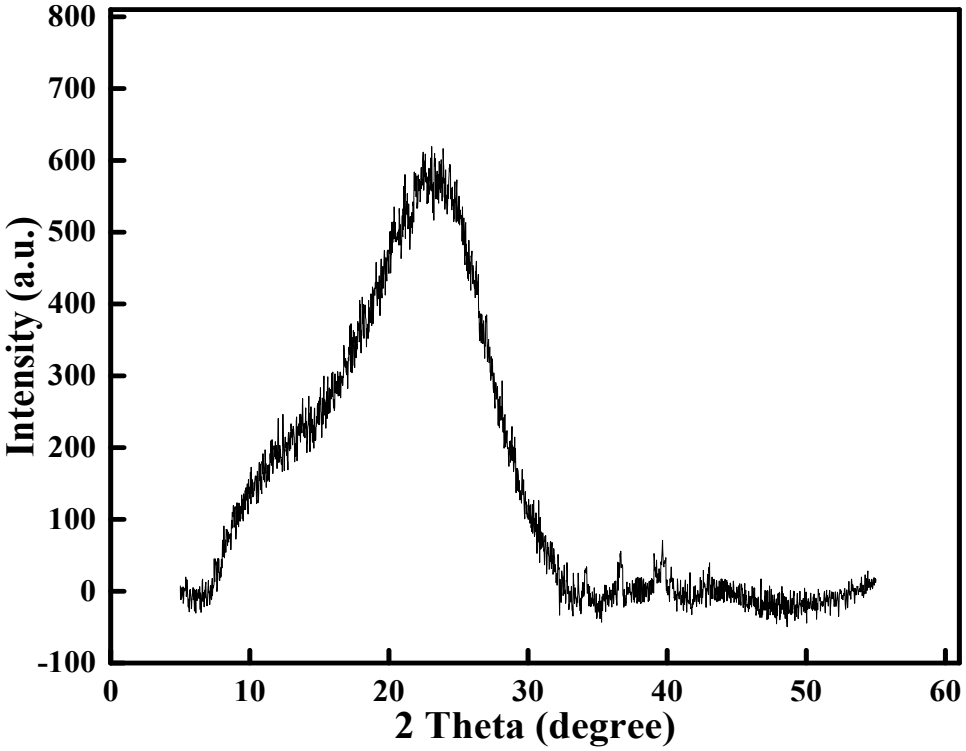

Figure S2. XRD pattern of B, N-GQDs.

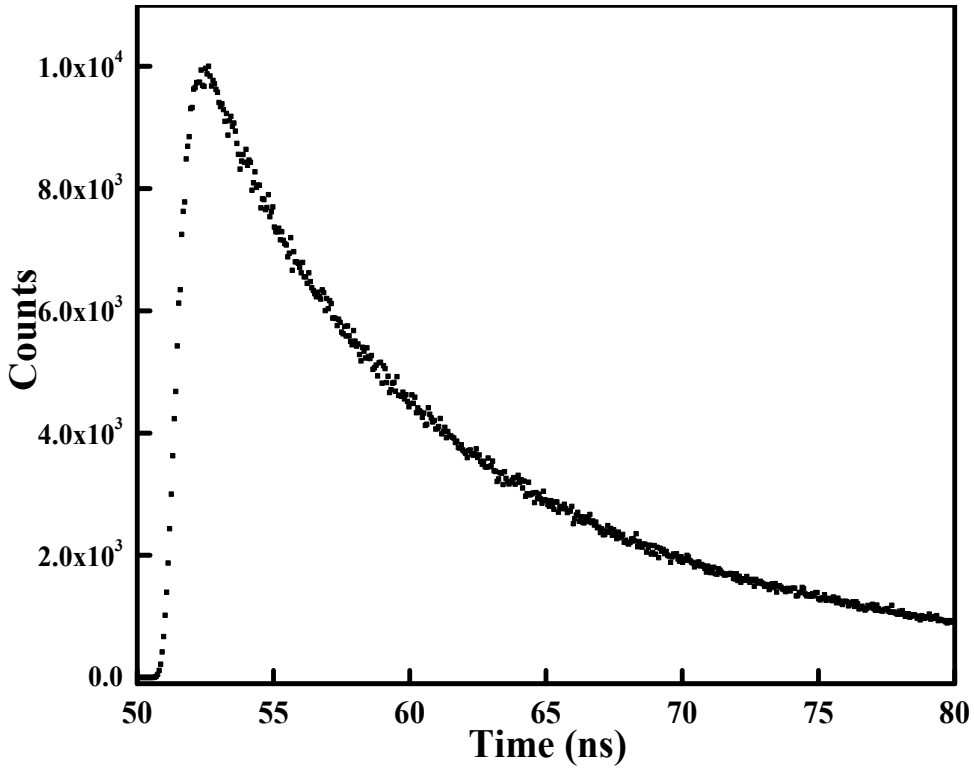

Figure S3. Time-resolved fluorescence decay curve of B, N-GQDs.

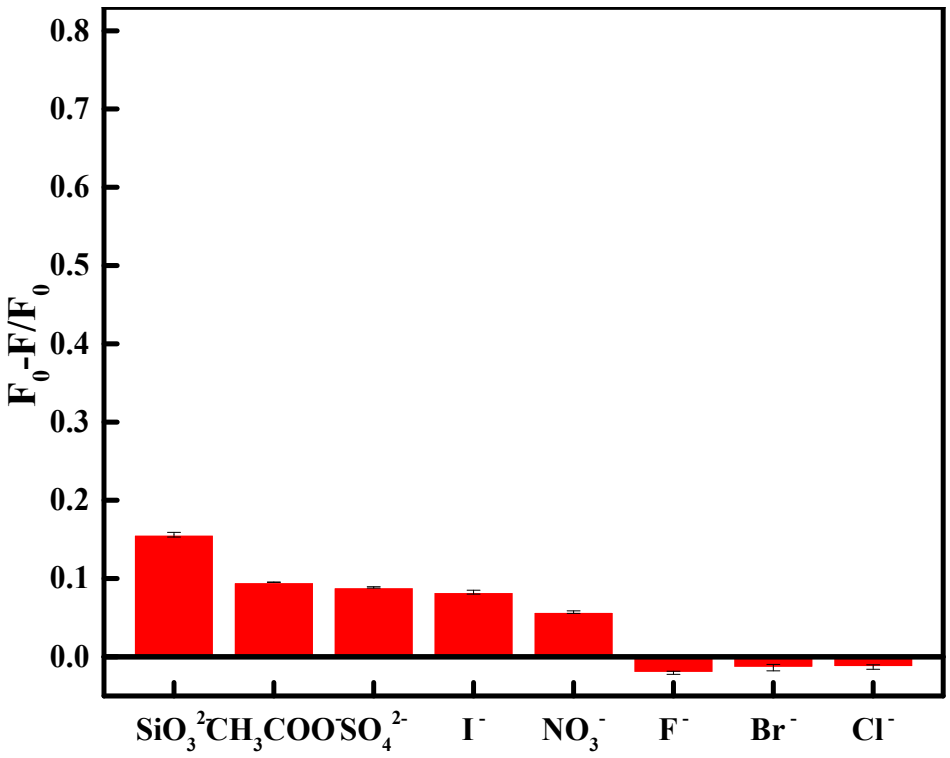

Figure. S4. Effect of anions on fluorescence intensity of B, N-GQDs (each at a concentration of 10 mM)

Table. S1. Relative quantum yield of GQDs using quinine sulfate as a reference

Sample	Abs. at 350 nm	Integrated PL intensity	Quantum yield (%)
Quinine Sulfate	0.0527	9605	54
B, N-GQDs	0.0473	11913	75
N-GQDs	0.0581	14020	71
B-GQDs	0.0183	1455	23