

Supporting Information

One-pot aqueous synthesis of composition-tunable near-infrared emitting Cu-doped CdS quantum dots as fluorescence imaging probes in living cells

Fei Zhang^a, Xi-Wen He^a, Wen-You Li*^a, Yu-Kui Zhang^{a, b}

^a *State Key Laboratory of Medicinal Chemical Biology, and Department of Chemistry, Nankai University, Tianjin 300071, China*

^b *National Chromatographic Research and Analysis Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116011, China*

* To whom correspondence should be addressed. E-mail: wyli@nankai.edu.cn

Supporting Figures:

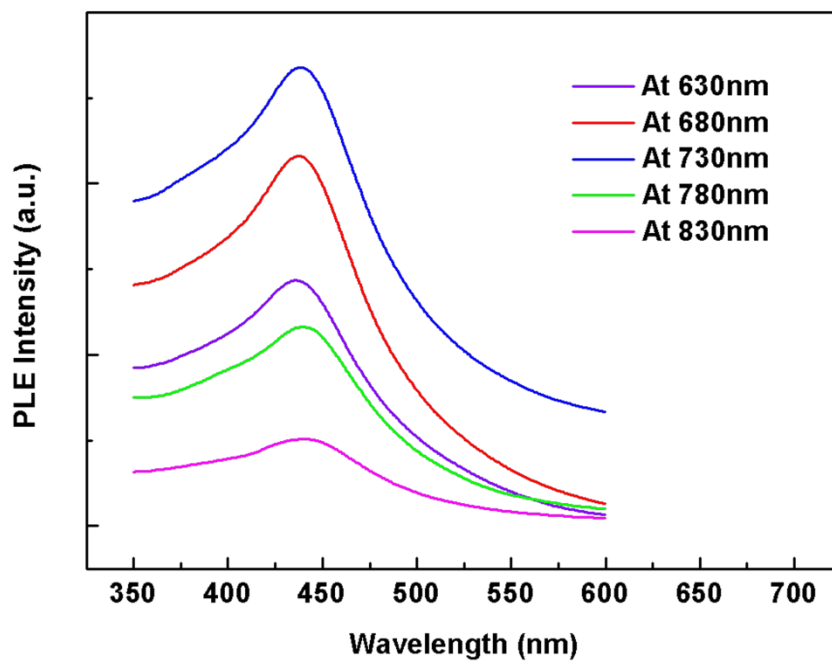


Figure S1. The PLE spectra of Cu:CdS d-dots at different emission wavelength.

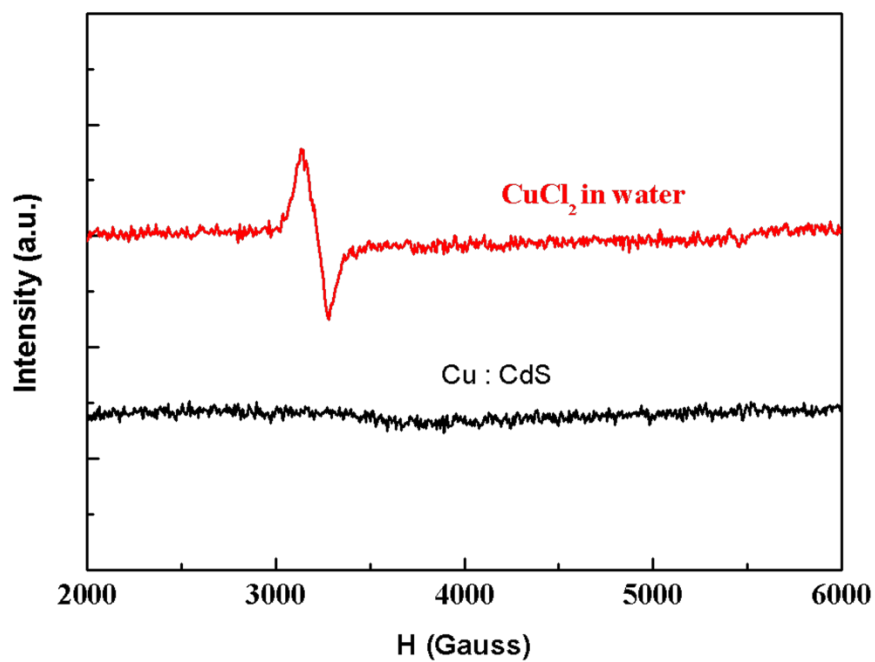


Figure S2. EPR spectra of Cu: CdS d-dots and CuCl₂ in water.

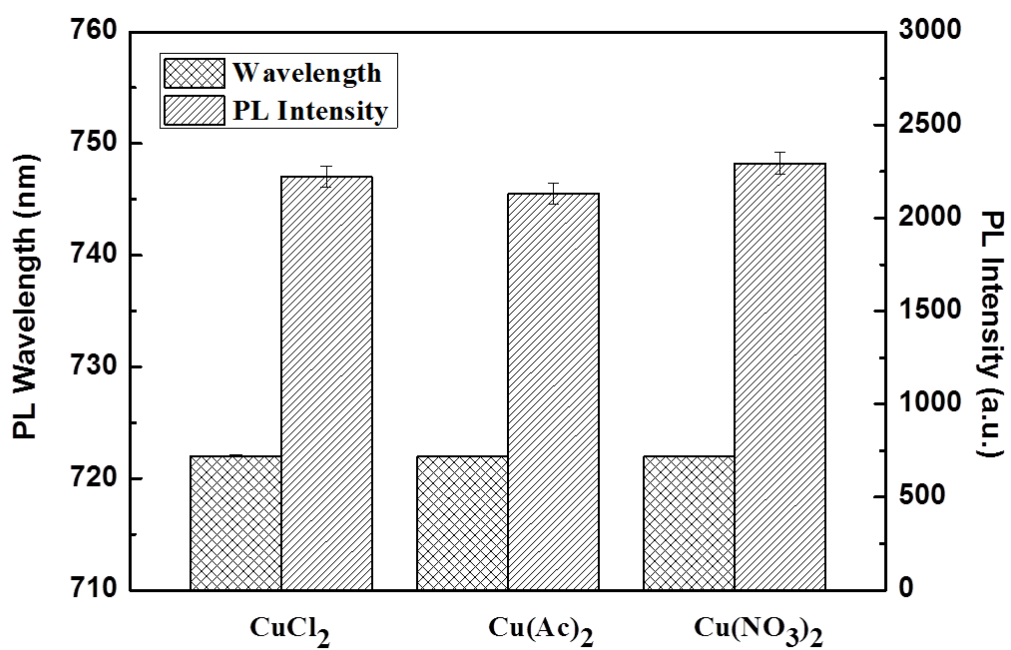


Figure S3. The emission wavelength and PL intensity of the d-dots doped with different Cu precursors.

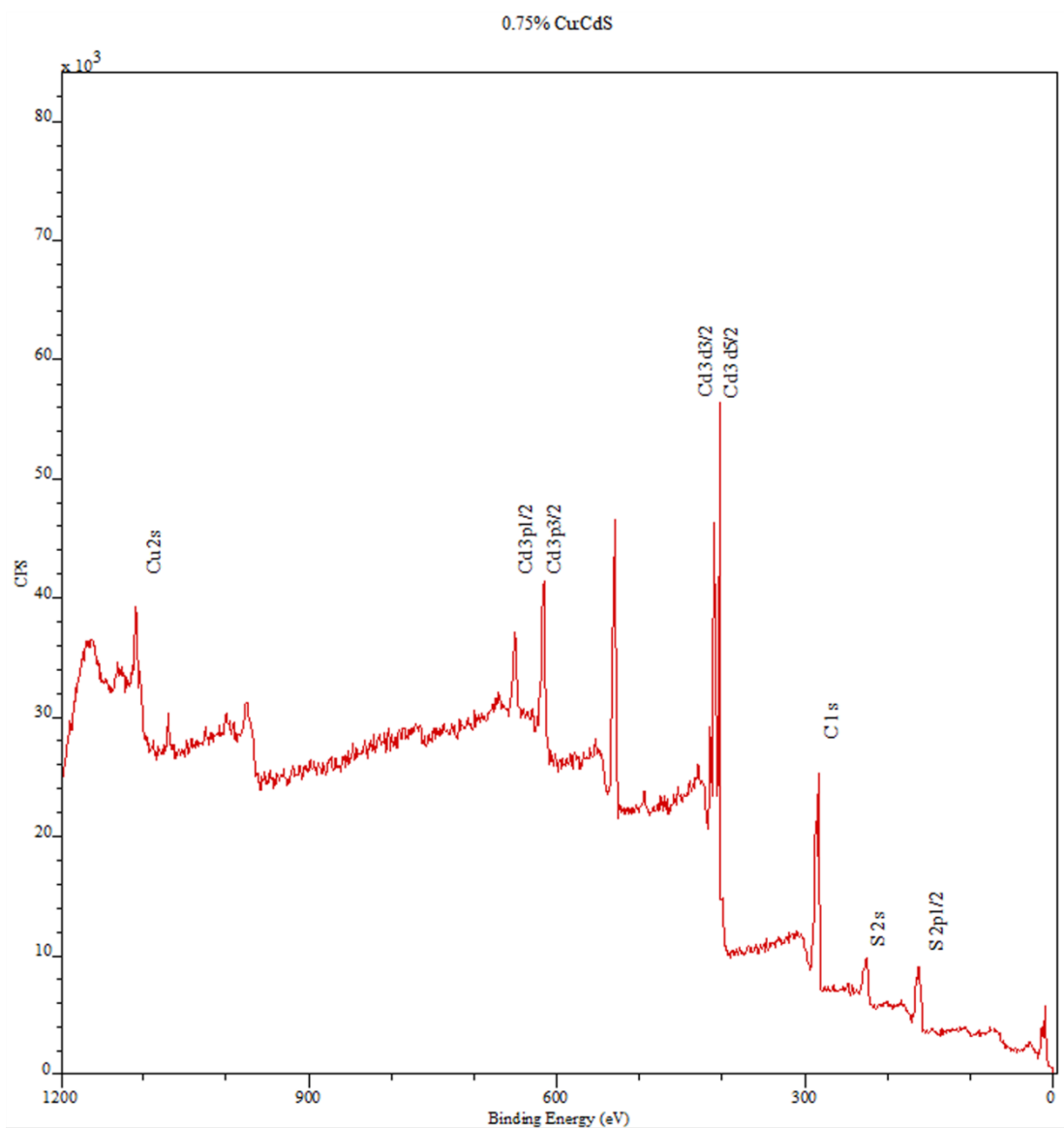


Figure S4. XPS spectra of Cu:CdS d-dots.

Table S1. The concentration of Cd and Cu element in the d-dots measured by ICP-AES spectra.

Element		Cd	Cu
Concentration	(mg/L)	109.7	0.40
Relative magnitude	(%)	100	0.64