Supporting Information

Sensitive detection of dissolved oxygen in seawater by fluorometric

sensing based on ZnO-NH₂@SiO₂ QDs

Mengmeng Cao^a, Hang Lv^{a, b}, Song Hu^a, Guohong Zhou^{a, *}

^a Shanghai Institute of Ceramics, Chinese Academy of Sciences,

Shanghai 200050, P.R. China.

^b Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences, Beijing, 100049, China.

*Corresponding author.

E-mail: sic_zhough@mail.sic.ac.cn (Prof. Guohong Zhou)

Tel.: +86 21 69906230

Address: 588 N. Heshuo Rd., Shanghai, China.

Ions	Concentrations (g/Kg)
Cl ⁻	19.354
SO	2.712
Br	0.0673
F-	0.0013
В	0.0045
Na^+	10.77
Mg^{2+}	1.290
HCO	0.142
Ca^{2+}	0.4121
K^+	0.399
Sr^{2+}	0.0079

 Table S1 Common elements and concentrations in seawater (S=35‰).

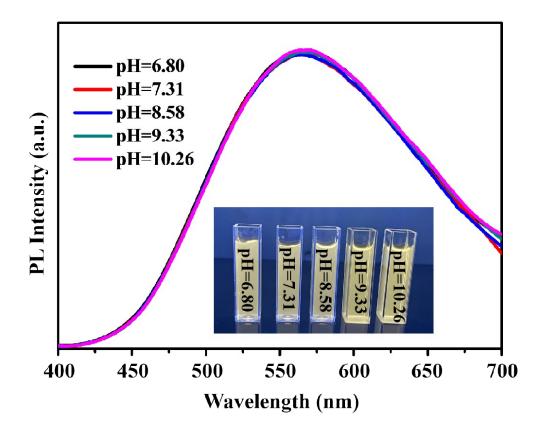


Figure S1. PL spectra and photographs (illustration) of as-prepared ZNS-1 QDs in the pH range of 6.80 to 10.26 under excitation of 365 nm.

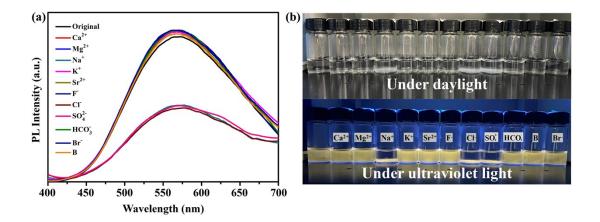


Figure S2. Photographs under daylight and ultraviolet light (a), and PL spectra (b) of as-prepared ZNS-1 QDs disperse in the different ion solutions under excitation of 365 nm.

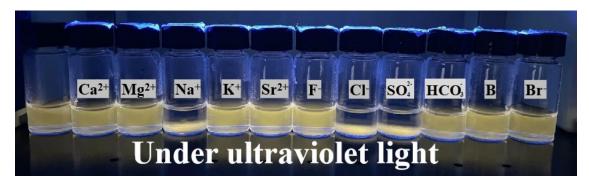


Figure S3. Photographs uner ultraviolet light of as-prepared ZnO QDs disperse in the different ion solutions.

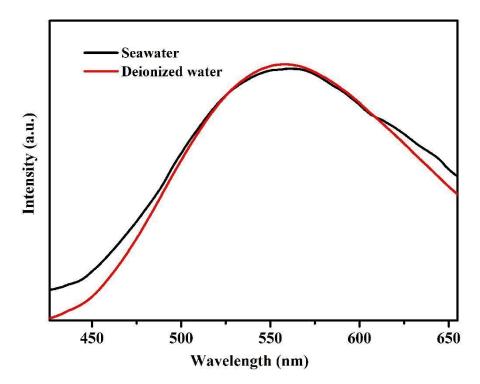


Figure S4. PL spectra of as-prepared ZNS-2 QDs respectively dispersed

in 80 mL deionized water and seawater under 365 nm excitation.