Supplementary Information

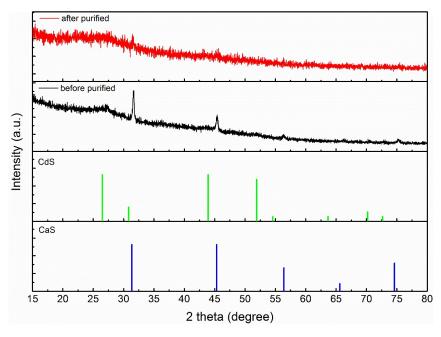
1	Supplementary Information
2	Preparing CdS QDs in sodium alginate gel: realizing
3	water-solubility and stimuli-responsiveness of QDs in an
4	integrative way
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26 Contents:

- S1. XRD patterns of the original and purified CdS-SA product.
- S2. PL spectra of CdS-SA solution with Ba²⁺, Ni²⁺, Al³⁺, Mg²⁺, Ca²⁺,
- and Zn^{2+} added.
- S3. TEM image of the CdS-SA solution with Fe³⁺, Ba²⁺ and Ni²⁺
- 31 added.
- 32 S4. PL spectra of 0.2 wt% CdS-SA QDs in different mediums (PBS;
- 33 DMEM + 10% FBS).

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36 Fig. S1 XRD patterns of the original and purified CdS-SA product.

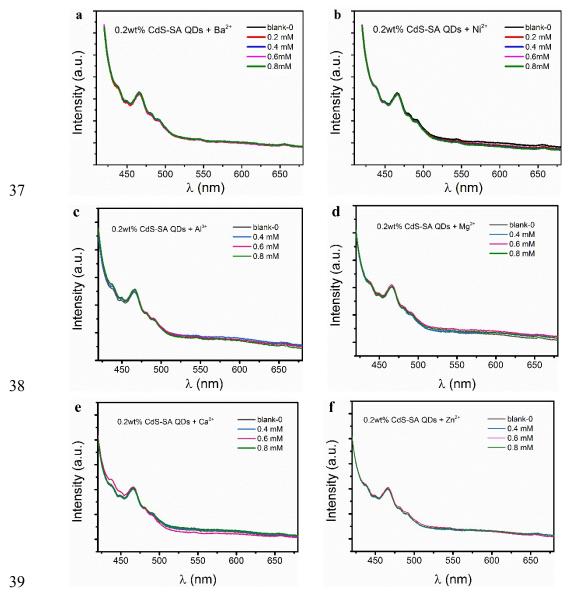
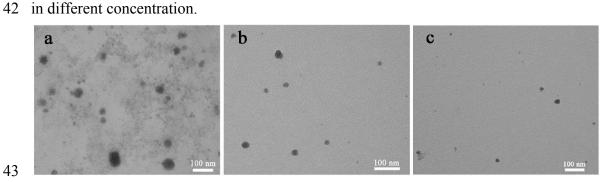
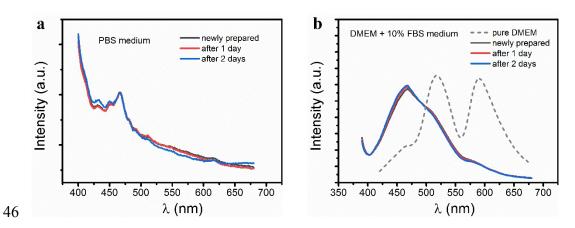


Fig. S2 Fluorescence spectra (excited at 400 nm) of 0.2 wt% CdS-SA solutions with addition of (a-f) BaCl₂, NiCl₂, AlCl₃, Ca(CH₃COO)₂, Mg(CH₃COO)₂, Zn(CH₃COO)₂



44 Fig. S3 TEM images of the 0.2 wt% CdS-SA solution with different ions added at the concentration of 0.4 mM. (a-c, Fe³⁺, Ba²⁺, Ni²⁺).

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47~ Fig. S4 Fluorescence spectra of 0.2 wt% CdS-SA QDs in different mediums (a, PBS;

48 b, DMEM + 10% FBS) measured after different time.