

Supporting Information

Design and Assembly of aqueous red CdTe QD-LED: Major factors to fabricate aqueous QD-LEDs

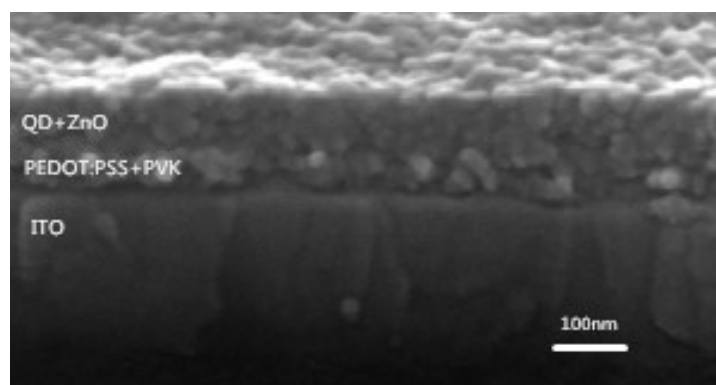
Jinhua Du¹, Shuhong Xu^{1*}, Chunlei Wang¹, Jiangyong Pan², Jing Chen², Li Zhu²,
Changgui Lv², Yiping Cui^{1,*}

¹Advanced Photonics Center, Southeast University, Nanjing 210096, Jiangsu, China

²Display Center, Southeast University, Nanjing 210096, Jiangsu, China

E-mail: xush@seu.edu.cn; cyp@seu.edu.cn.

Figure S1: Cross-sectional scanning electron microscope image of the aqueous red CdTe QD-LED.



The method of preparing QDs solution used in sample B

The experimental steps in detail are as follows:

- (1) 14 mL CdCl₂ solution and 290 μL MPA were mixed in 26 mL DI water to make a kind of solvent.
- (2) The pH of the solvent was adjusted to 6.8 by adding NaOH solution.
- (3) 35 mL aqueous red CdTe QDs solution (4 × 10⁻³ mol/L) was centrifuged, purified and re-dispersed in a 4 mL the solvent /Triton X-100 mixed solution with volume ratio of 2000:1.
- (4) The new CdTe QDs solution (0.035 mol/L) was the QDs solution used in sample B.