Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

Support information

Highly Efficient, All-Solution-Processed, Flexible White Quantum Dot Light-Emitting Diodes

Piaoyang Shen, Xiaomin Li, Fan Cao, Xingwei Ding and Xuyong Yang*

Key Laboratory of Advanced Display and System Applications of Education of Ministry, Shanghai University, 149 Yanchang Road, Shanghai 200072, P. R. China

* To whom correspondence should be addressed. Email: yangxy@shu.edu.cn

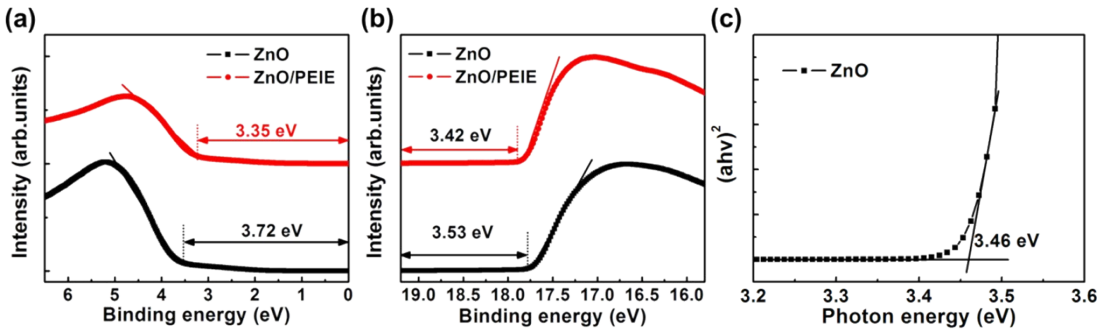

Fig. S1 UPS spectra showing (a) valence-band edge regions and (b) high-binding energy secondary electron cutoff of ZnO and ZnO/PEIE films (PEIE is 0.4 wt%). (c) $(Ahv)^2$ -hv plots converted from absorption spectra of ZnO.

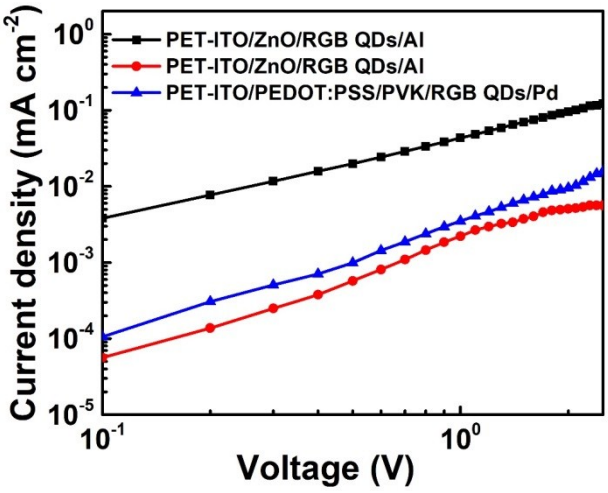

Fig. S2 J-V characteristics of the electron-only and hole-only devices.

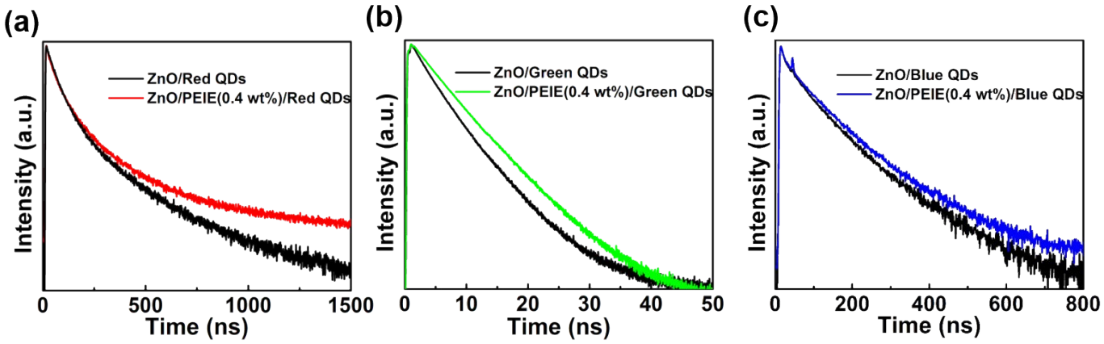

Fig. S3 Time-resolved PL decay curves for (a) red QD, (b) green QD sand (c) blue QD films with and without PEIE deposited on ZnO layers.

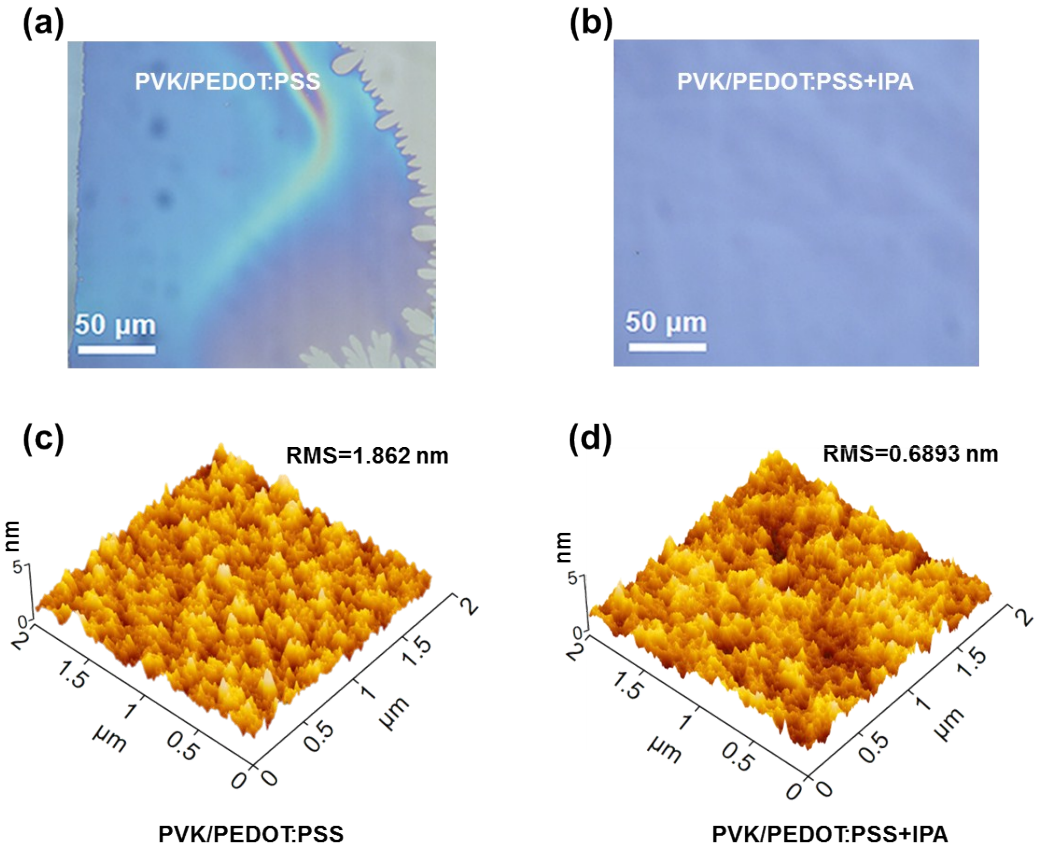

Fig. S4 Optical microscopy and AFM images of (a, c) PEDOT:PSS and (b, d) PEDOT:PSS mixed with IPA spin-coated on PVK films on glass substrates, respectively.

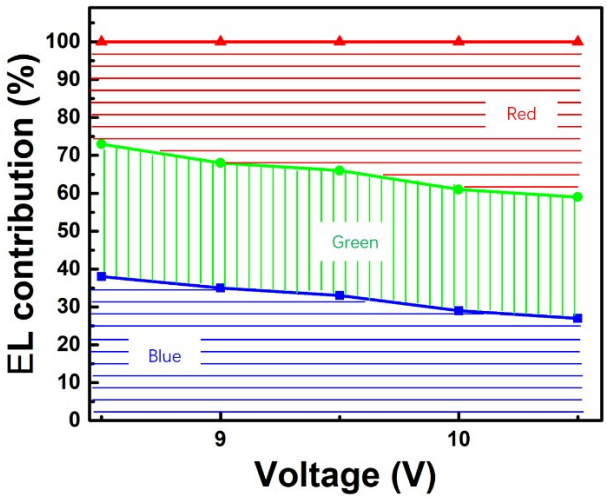

Fig. S5 Areal contribution of each individual color to the entire white EL spectra of QLEDs under different applied voltages.