Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.

High Color Rendering Index Warm White Light Emitting Diodes Fabricated from $AgInS_2$/ZnS Quantum Dots/PVA Flexible Hybrid Films

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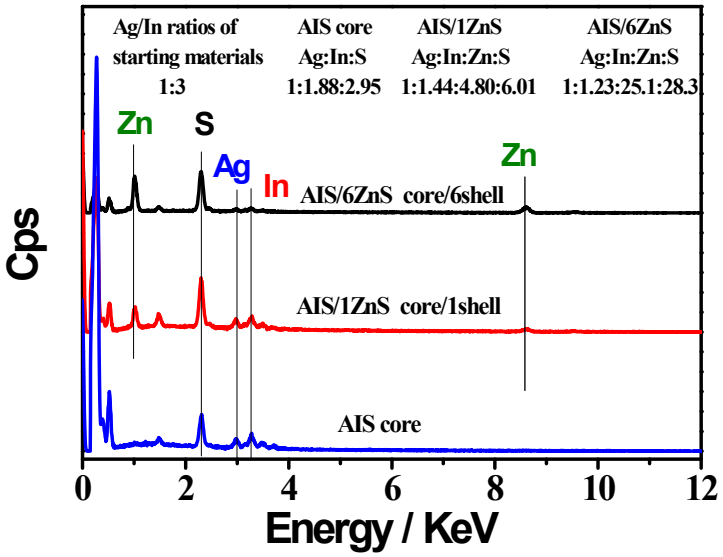

Fig. S1 EDS spectra of AIS cores (Ag:In=1:3), AIS/1ZnS core/1shell QDs and AIS/6ZnS core/6shell QDs.

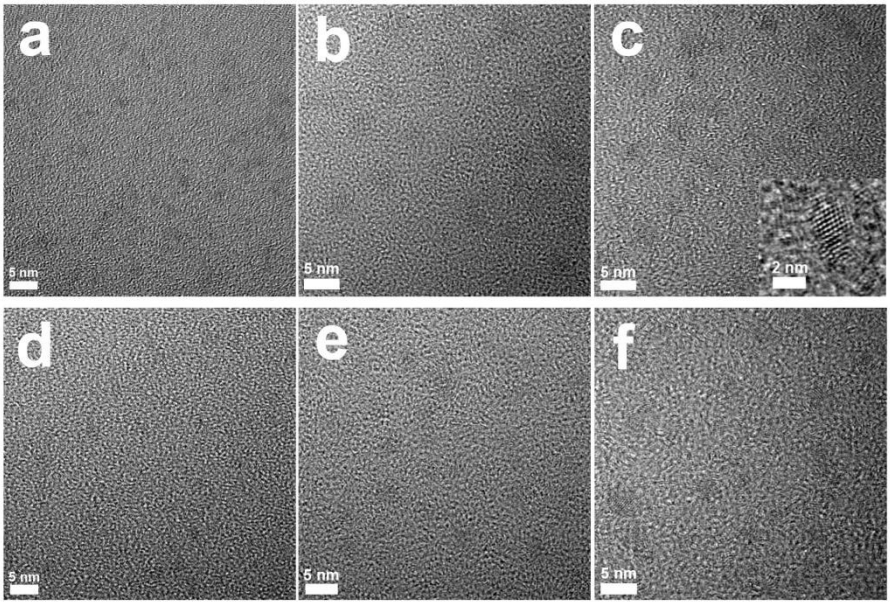

Fig. S2 TEM images of AIS cores (Ag:In=1:3) (a), AIS/1ZnS core/1shell QDs (b) and AIS/6ZnS core/6shell QDs (c). Inset shows the HR-TEM image; TEM images of AIS cores (Ag:In=1:8) (d), AIS/1ZnS core/1shell QDs (e) and AIS/6ZnS core/6shell QDs (f).

Fig. S3 PL intensities of green (a) and red (b) QDs/PVA films as a function of the ratio of QDs/PVA.

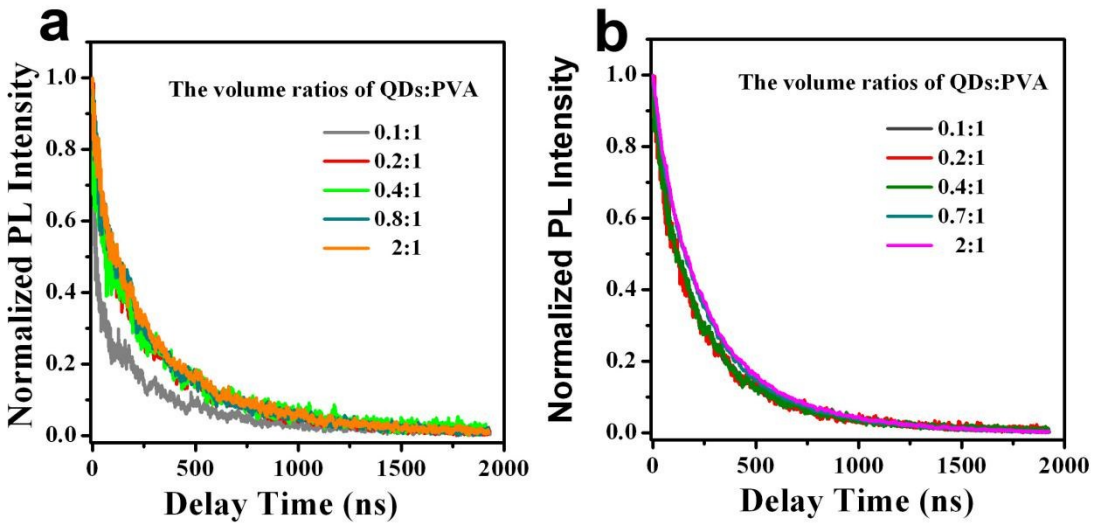

Fig. S4 Luminescence decay curves of green and red QDs/PVA films (QD:PVA volume ratios of 0.1:1, 0.2:1, 0.4:1, 0.8:1 or 0.7:1, 2:1) under the excitation of 460 nm.

Fig. S5 Fluorescence microscope images of the green and orange QDs/PVA films.

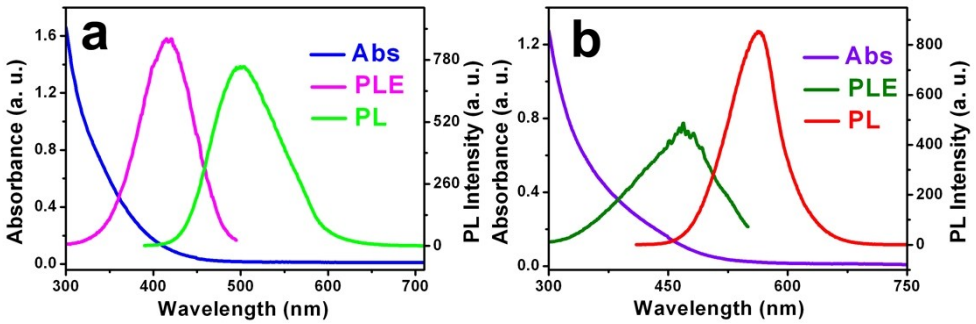

Fig. S6 UV-vis absorption, excitation and PL spectra of green (a) and red (b) QDs/PVA films.

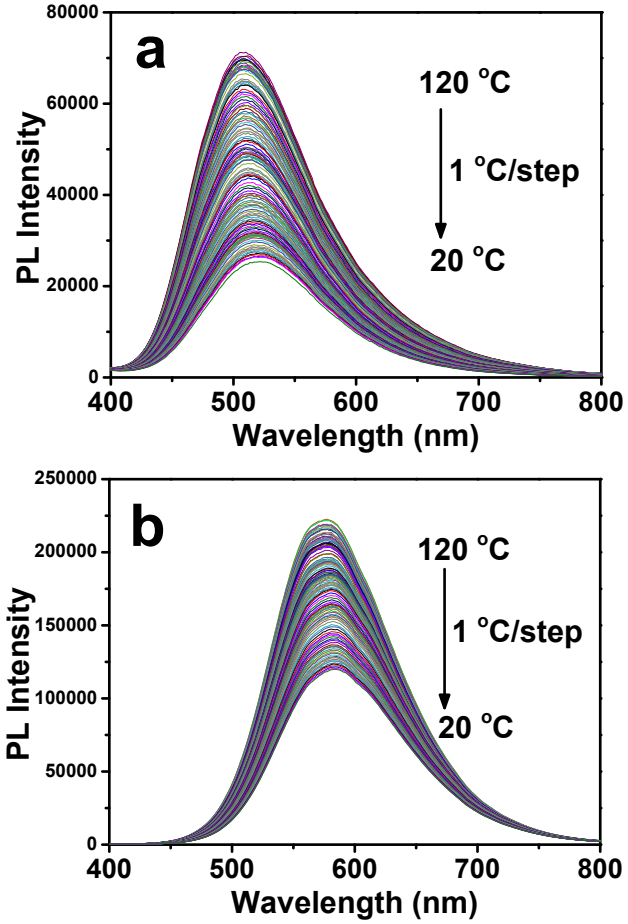

Fig. S7 Temperature-dependent PL spectra of green (a) and red (b) QDs/PVA films.