

Supplementary Material (ESI) for Journal of Materials Chemistry
This journal is (c) The Royal Society of Chemistry 2011

SUPPLEMENTARY INFORMATION

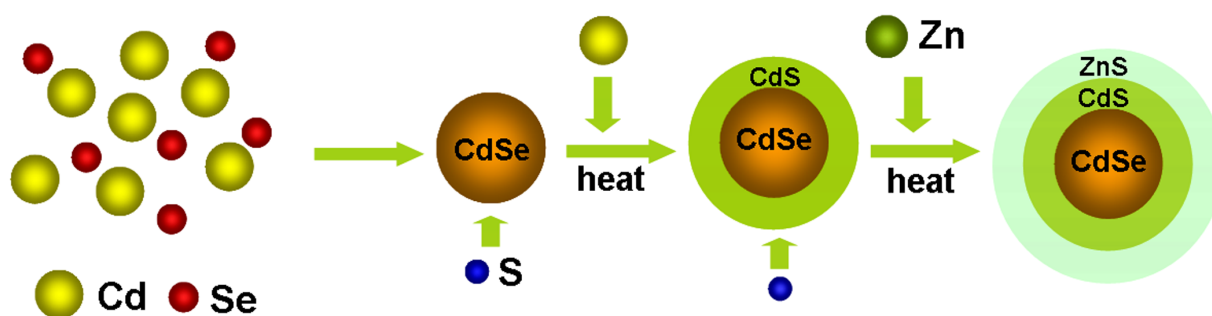
Stable Efficient CdSe/CdS/ZnS Core/Multi-Shell Nanophosphors Fabricated Through Phosphine-free Route for a White Light-Emitting-Diodes with High Color Rendering Properties

Xiebing Wang^a, Wanwan Li^{* a} and Kang Sun^{*a}

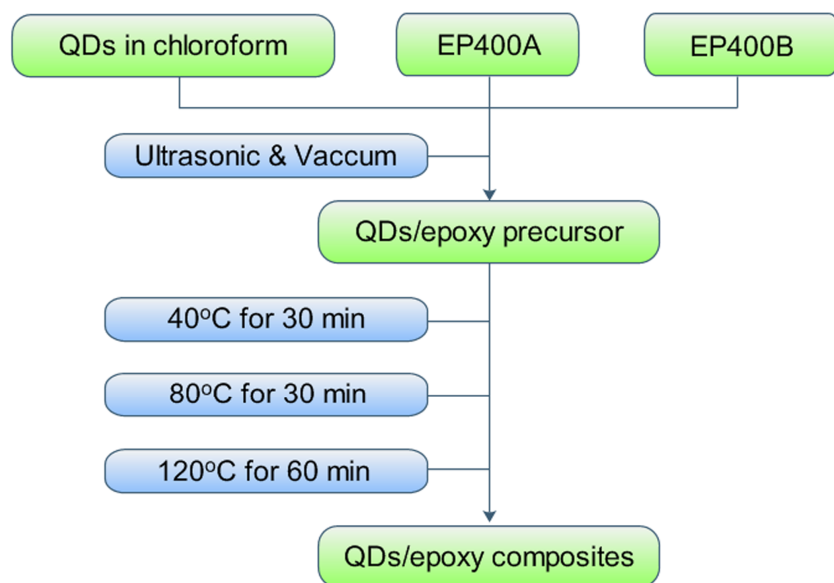
^a State Key Lab of Metal Matrix Composites, Shanghai Jiao Tong University, 800 Dongchuan Road, Shanghai 200240 (P. R. China)

^{*} To whom the correspondence should be addressed:
E-mail: ksun@sjtu.edu.cn (Kang Sun); wwli@sjtu.edu.cn (Wanwan Li)
Phone: +86-21-34202743 Fax: 10 +86-21-34202745

Measurement of pH value of as-used paraffin liquid and paraffin liquid with CdSe QDs: The measurement was carried out according to the standard by Ministry of Health of China (WSL-80(B)-89). Typically, the sample of pure paraffin liquid or the CdSe core QDs solution (10 mL) was mixed with a mixture of water/95% ethanol (1:1 in volume ratio, 10 mL) in a flask, and the mixture was heated to 50-60 °C under stirring for 15min. Then the mixture was poured into a separating funnel and stayed still until it stratified, and the water/ethanol extraction was separated into another container to measure the pH value by a HANNA pH 211 Microprocessor pH meter.



Scheme S1 Schematic of CdSe/CdS/ZnS QDs preparation process.



Scheme S2 Schematic of preparation process of the CdSe/CdS/ZnS QDs/epoxy composites.

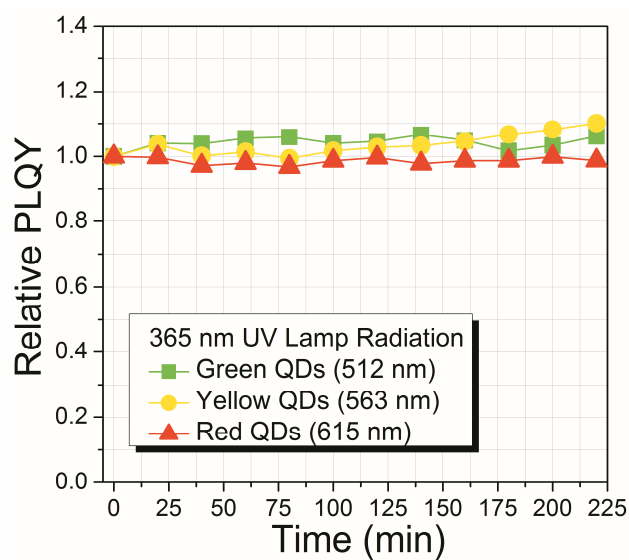


Fig. S3 Variation of the PLQY of the CdSe/CdS/ZnS core/multi-shell QDs solution (in *n*-hexane) under 365 nm UV lamp illumination.

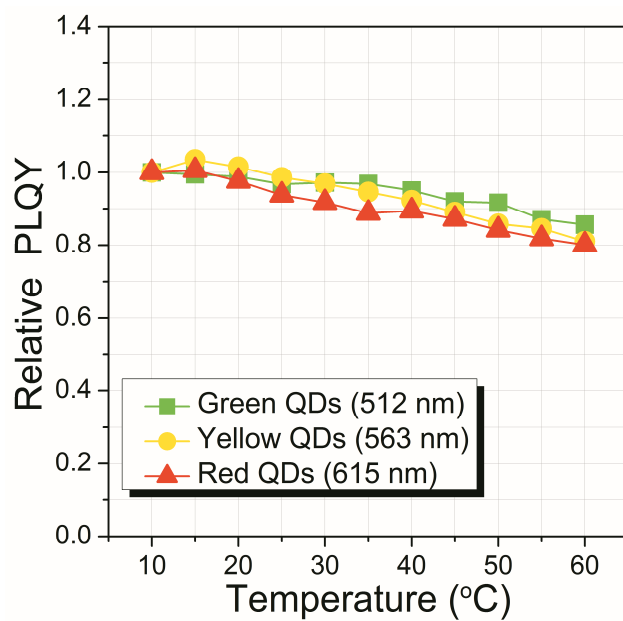


Fig. S4 Variation of the PLQY of the CdSe/CdS/ZnS core/multi-shell QDs solution (in *n*-hexane) at different temperatures.