

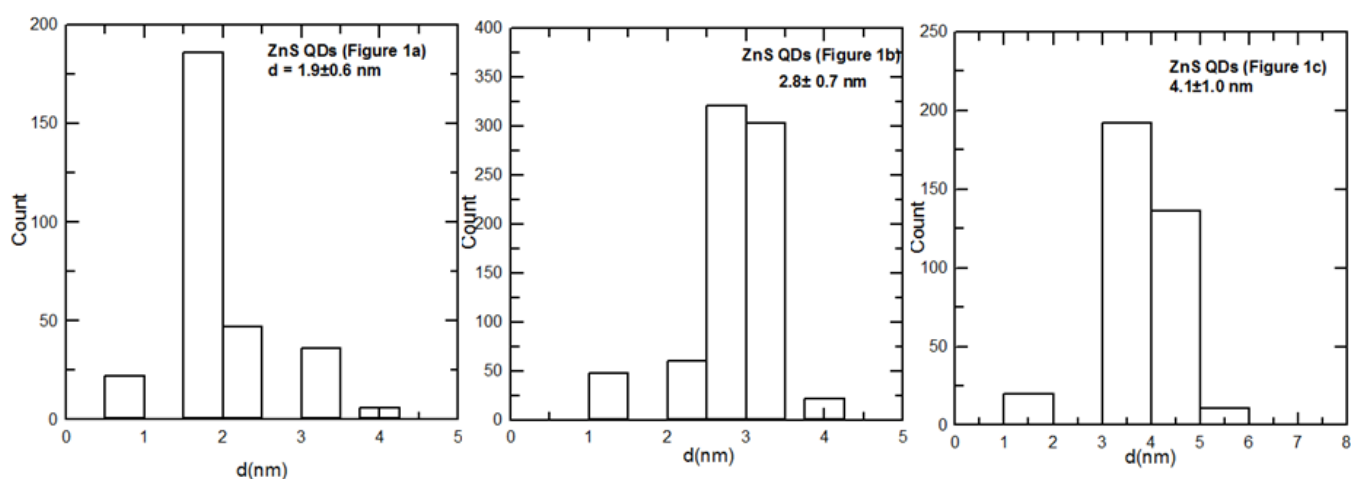
## Photochemical synthesis of size-tailored hexagonal ZnS quantum dots

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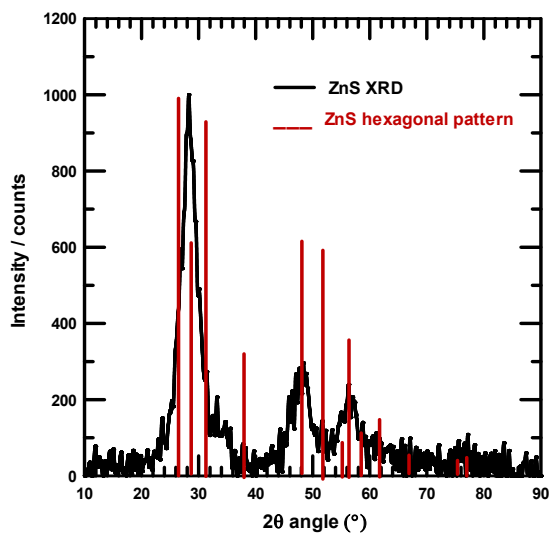
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**Figure S1.** Histograms for ZnS QDs population in Figures 1a-c.

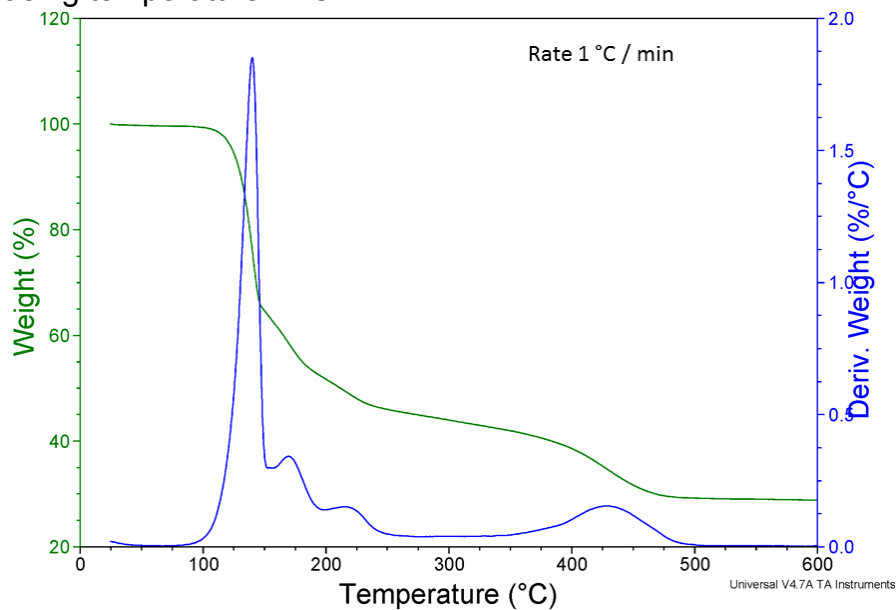


**Figure S2.** XRD of a sample of ZnS QDs (after 3 cycles of centrifugation/rinsing) left overnight at 200 °C. Reference pattern 01-079-2204 ICDD database.



## Supporting Information

**Figure S3.** Curves for both the thermal gravimetric analysis and differential gravimetric analysis of a representative ZnS QDs sample. The temperature range was 25 – 600 °C, and the rate of increasing temperature 1 °C/min.



**Figure S4.** Change in UV spectra with irradiation time of a sample containing thiourea (0.1 mM) and acetone (10 mM) in isopropanol.

