

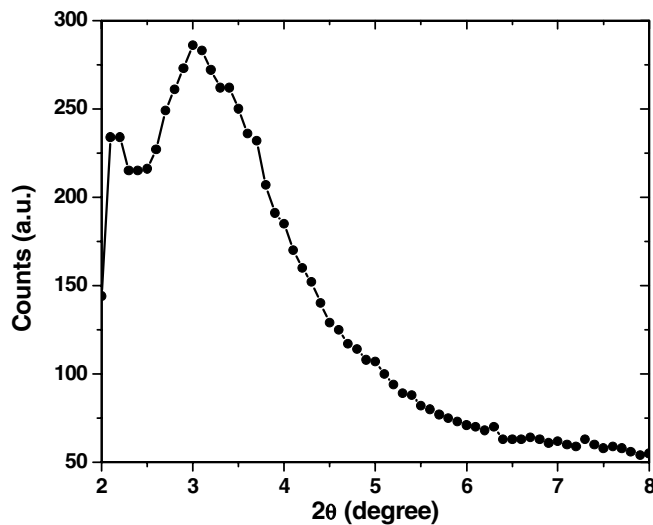
## **Supporting Information**

### **Low Temperature Synthesis of Hexagonal (Wurtzite) ZnS Nanocrystals**

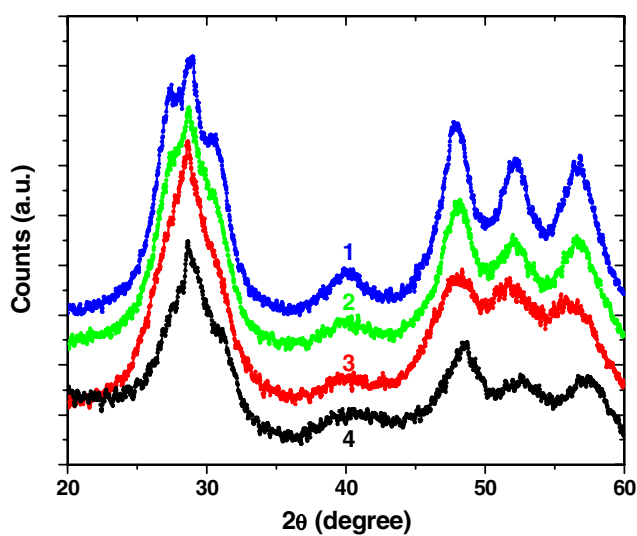
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**Supplemental Figure 1:** Small angle x-ray diffraction of ZnS nanocrystals obtained from the first aliquot (see text). The particle size estimated from the  $2\theta = 3^\circ$  peak using Bragg equation is about 2.9nm.



**Supplemental Figure 2:** XRD patterns for ZnS nanocrystals obtained in glycerol (1: blue), diethylene glycol (2: green) and ethylene glycol (3: red) without tetramethylammonium hydroxide and in ethylene glycol with tetramethylammonium hydroxide (4: black). Curves are offset in y-axis for clarity.