Supporting Information for Reviewers for;

A Generalized and Facile Synthesis of Semiconducting Metal Sulfide Nanocrystals

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Figure S1. X-ray diffraction patterns of (a) PbS nanocrystals, cubic (Fm3m) structure, (b) ZnS nanocrystals, zinc blend structure, (c) CdS nanocrystals, wurtzite structure, (d) hexagon-shaped MnS nanocrystals, wurtzite structure. The peaks indicated by arrows are Si substrate peak.

Figure S2. TEM images of 6 nm, (b) 8 nm, and (c) 9 nm sized PbS nanocrystals.

Figure S3. TEM image of ZnS nanocrystals before the size selective process.

Figure S4. TEM image of 7nm CdS nanocrystals.

Figure S5. TEM images of MnS nanocrystals. (a) rod-shaped nanocrystal of average size of 20 nm (thickness) $\times$ 37 nm (length), inset is HRTEM image, (b) bullet-shaped nanocrystal of average 23 nm (thickness) $\times$ 37 nm (length).