SUPPORTING INFORMATION

A Molecular Precursor Approach for the Synthesis of Composition-Controlled Zn$_x$Cd$_{1-x}$S and Zn$_x$Cd$_{1-x}$Se Nanoparticles

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Solution (DMF) absorption spectra of Zn$_x$Cd$_{1-x}$S nanoparticles for $x = 0.95$, 0.75, 0.55, 0.35 and 0.15.

Powder X-ray diffraction patterns of the as-prepared Zn$_x$Cd$_{1-x}$S nanoparticles. From top to bottom: Zn$_{0.95}$Cd$_{0.05}$S, Zn$_{0.75}$Cd$_{0.25}$S, Zn$_{0.55}$Cd$_{0.45}$S, Zn$_{0.35}$Cd$_{0.65}$S and Zn$_{0.15}$Cd$_{0.85}$S.
UV-visible spectrum of Zn$_{0.25}$Cd$_{0.75}$Se nanoparticles prepared in THF with reaction temperatures of a) 66°C, b) 0°C and c) -78°C