

Synthesis of doped zinc blende-phase InSe:M (M=Fe and Co) nanocrystals for diluted magnetic semiconductor nanomaterials

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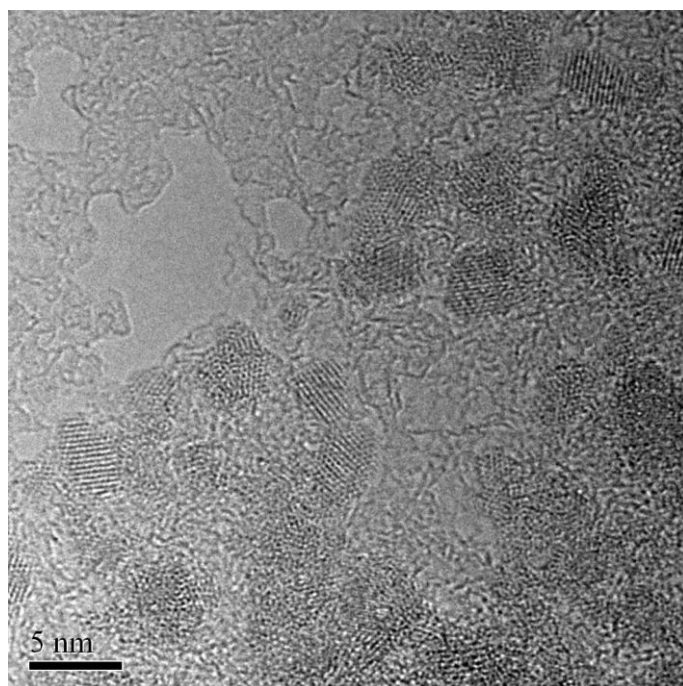


Fig. S1 HRTEM image of ZB-InSe:Fe NCs with sphere-like morphologies. The crystallinity is good confirmed by the visible lattice fringes.

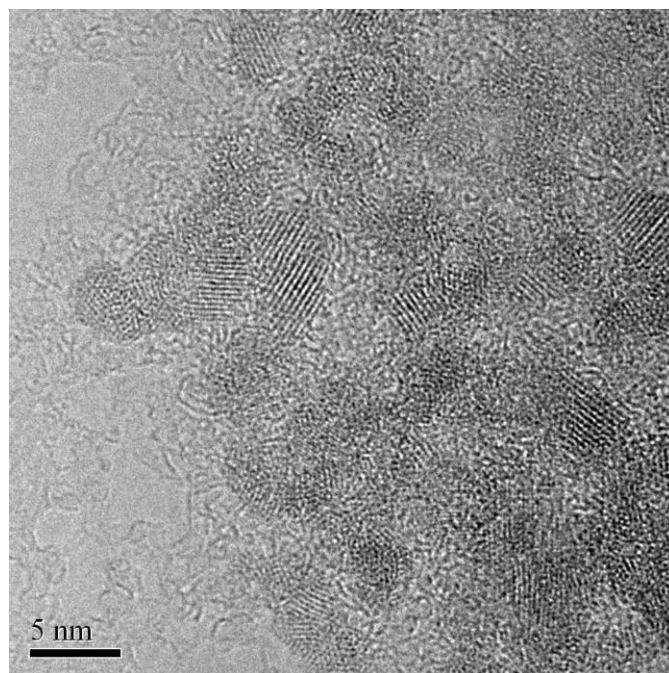


Fig. S2 HRTEM image of ZB-InSe:Co NCs with worm-like shapes.

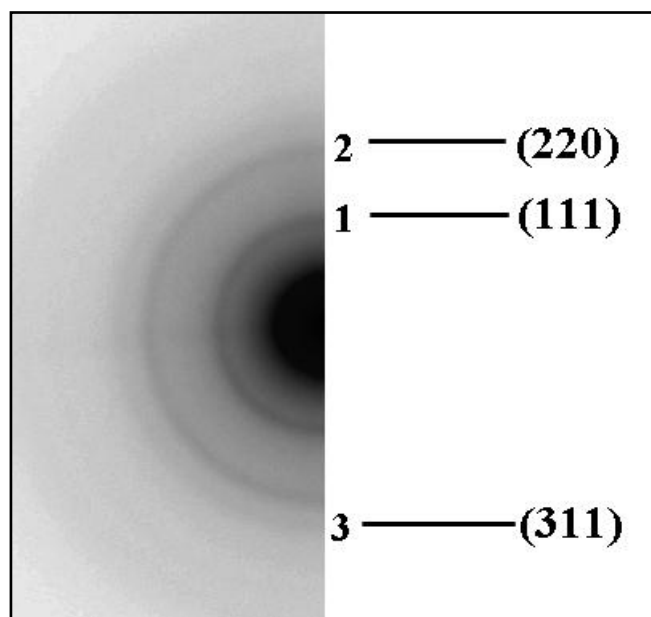


Fig. S3 SAED pattern of doped ZB-InSe NCs. The diffraction rings are responding to (111), (220) and (311) crystal planes.

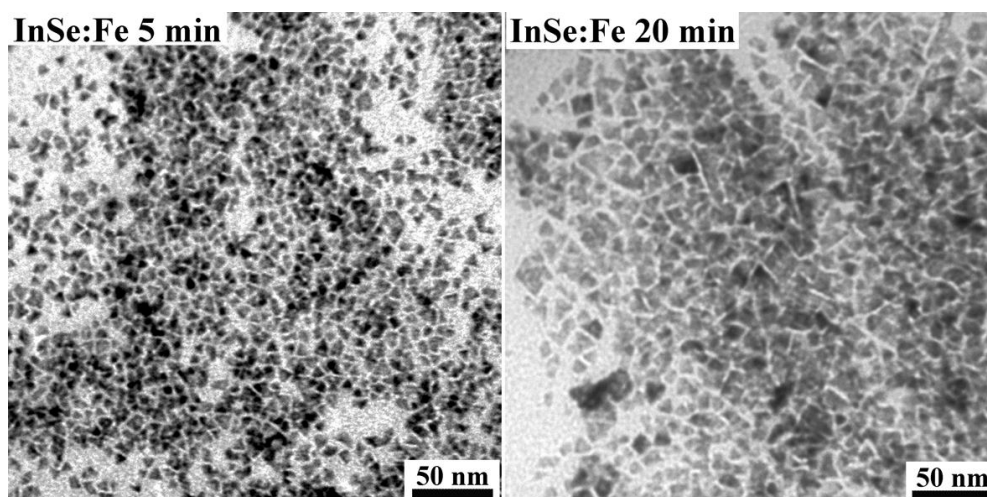


Fig. S4 TEM images of ZB-InSe:Fe nanocrystals taken at different reaction time. Coupled with increasing reaction time, the size of nanocrystals increases and the shape still keep unchanged.

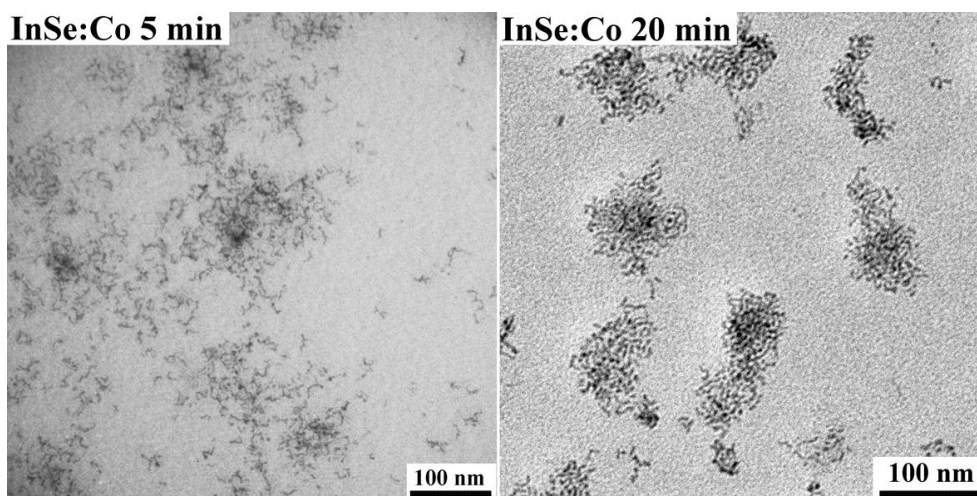


Fig. S5 TEM images of ZB-InSe:Co nanocrystals taken at different reaction time. Coupled with increasing reaction time, the size of nanocrystals increases and the shape has not change.