

Electronic Supplementary Information

Ligand assisted digestion and formation of monodisperse FeCoS₂ nanocrystals

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Table S1: ICP analysis of FeCoS₂ sample at 300°C

	Fe/(Fe+Co) (%)	Co/(Fe+Co) (%)
FeCoS ₂	73.7	26.2

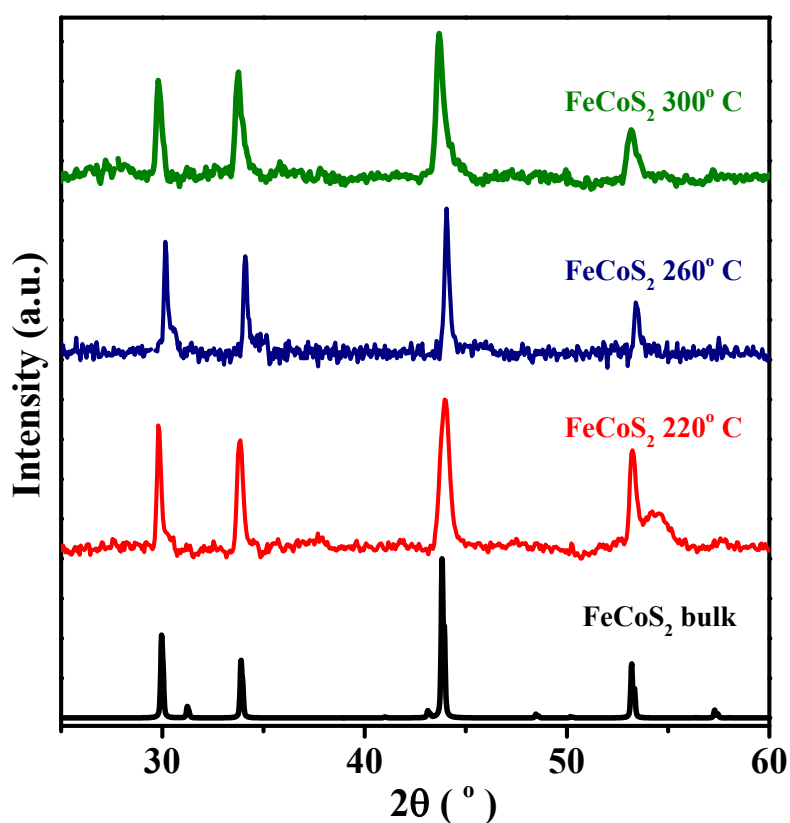


Fig. S1. XRD pattern of FeCoS₂ samples synthesized at different temperatures.

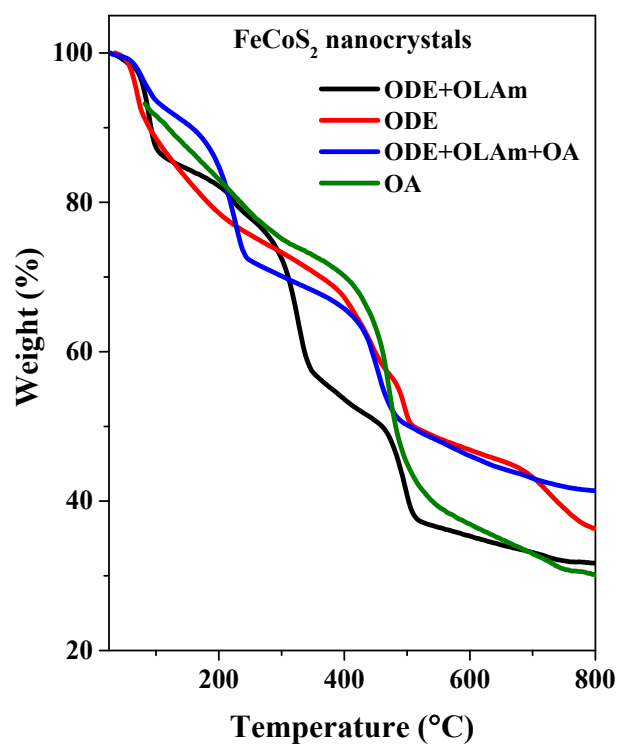


Fig. S2. TGA pattern for different FeCoS₂ nanocrystals.

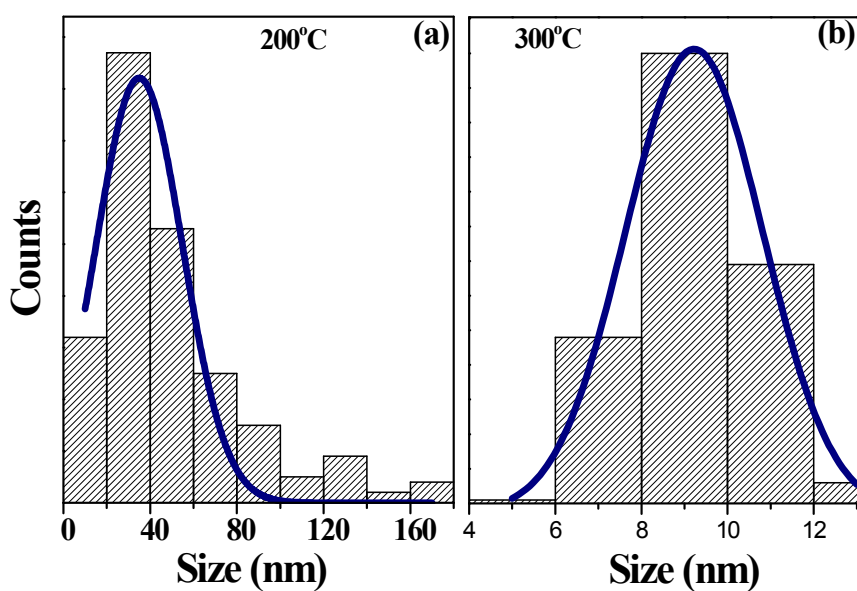


Fig. S3. Size distribution histogram of the nanocrystals at a) 200°C and b) 300°C

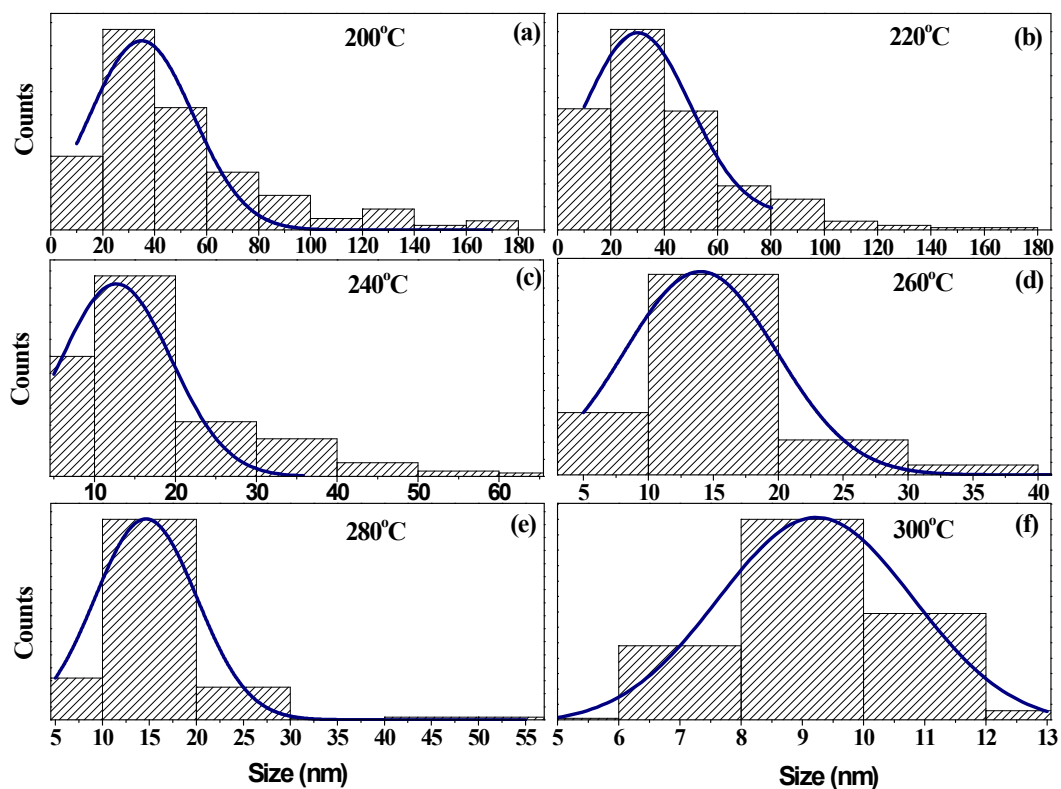


Fig. S4. Size distribution histogram of as-synthesized nanocrystals at different temperatures (a) 200°C (b) 220°C (c) 240°C (d) 260°C (e) 280°C and (f) 300°C.

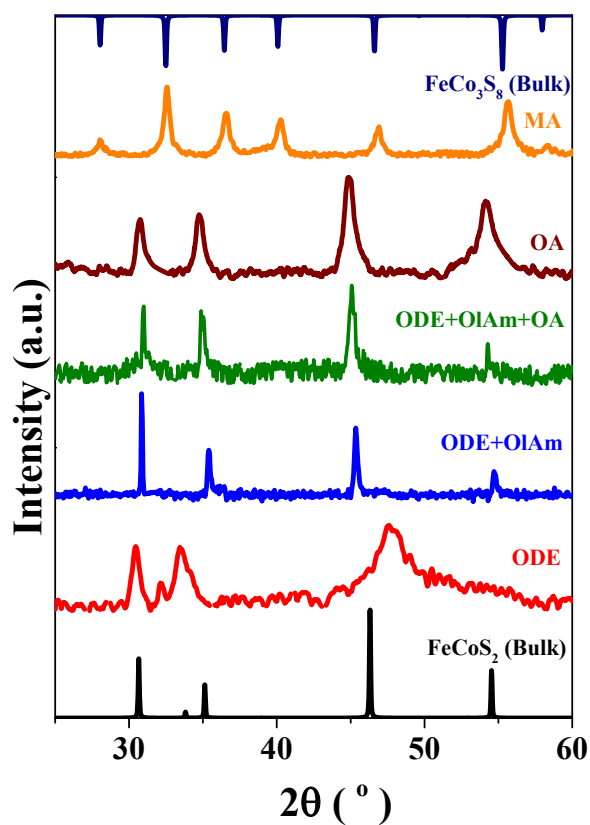


Fig.S5. XRD pattern of nanocrystals synthesized using different ligands.

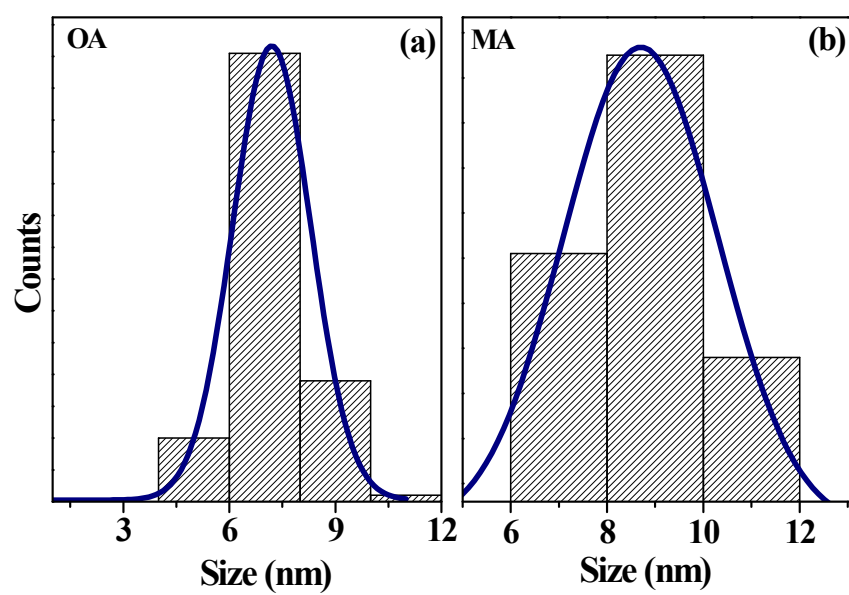


Fig. S6. Size distribution histogram of nanocrystals formed using (a) OA (b) MA.