

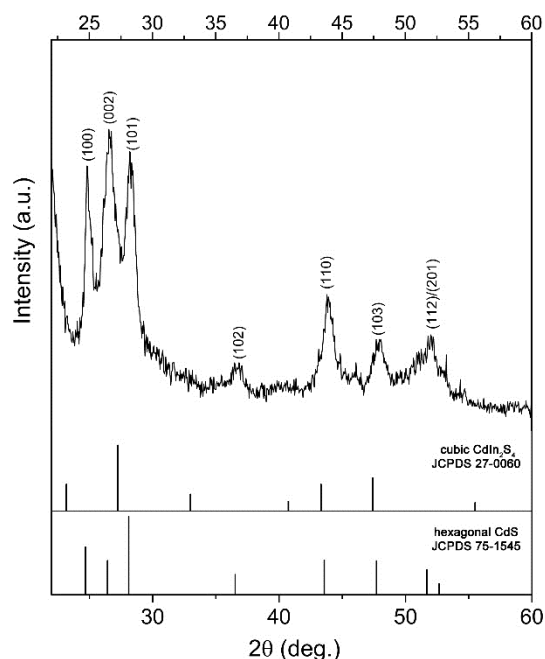
## Supporting information

### The influence of the reaction media on $\text{CdIn}_2\text{S}_4$ and $\text{ZnIn}_2\text{S}_4$ nanocrystalite formation and growth of mesocrystal structures

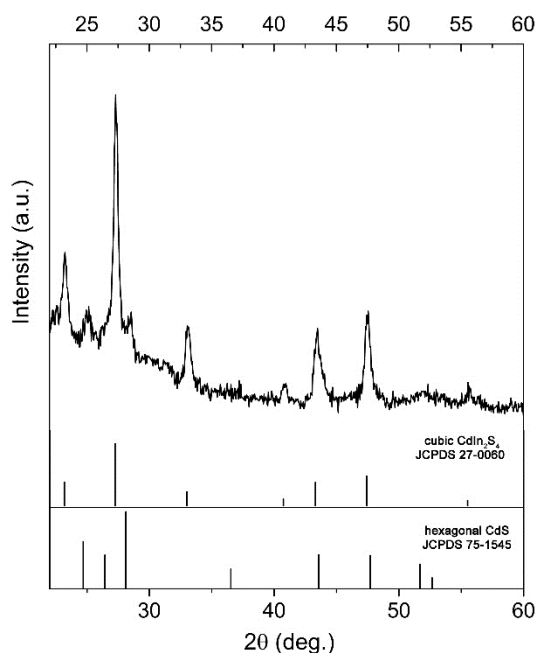
M. V. Carević,<sup>a</sup> M. I. Čomor,<sup>a\*</sup> M. N. Mitrić,<sup>a</sup> T. S. Barudžija,<sup>a</sup> S. P. Ahrenkiel,<sup>b</sup> and Nadica D. Abazović<sup>a\*</sup>

Sample	Concentrations of ions precursor solutions (mol/dm <sup>3</sup> )		
	Cd	In	S
C1	0.0485	0.0914	0.2
C2	0.0333	0.1	0.2
C3	0.0333	0.1	0.2
Z1	0.5	0.1	0.2

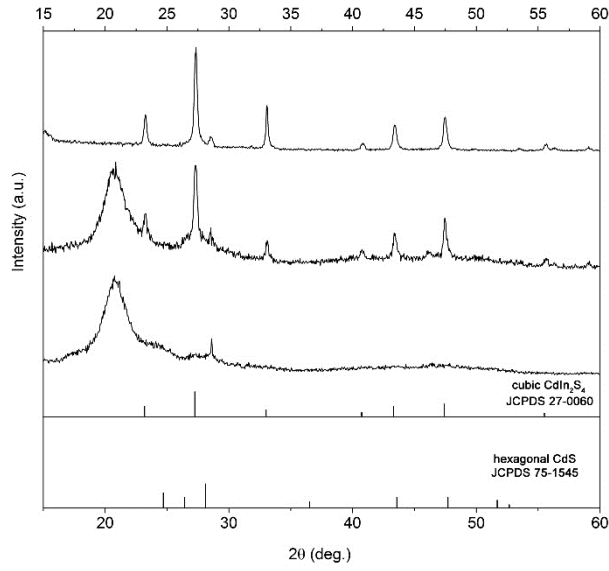
Table S1. Molarities of precursor solutions



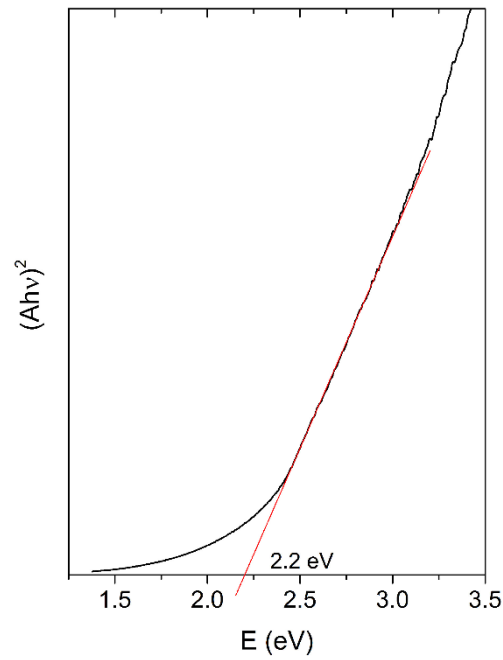
**Fig. S1** XRD pattern of sample C1 with corresponding JCPDS cards and relative intensities of related diffraction peaks



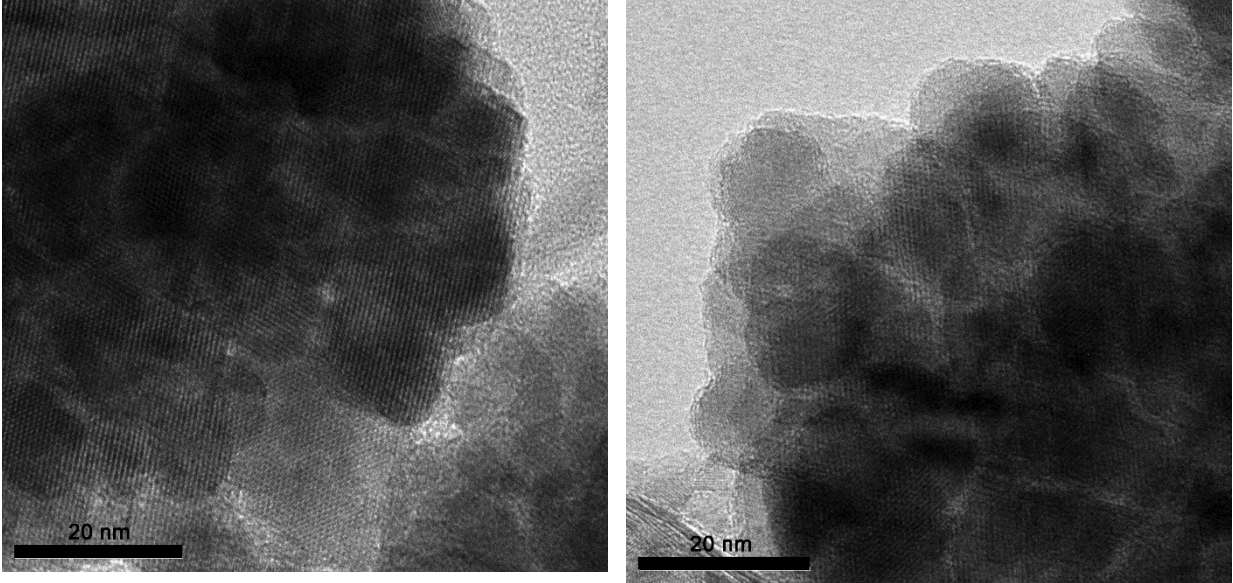
**Fig. S2** XRD pattern of sample C2 with corresponding JCPDS cards and relative intensities of related diffraction peaks



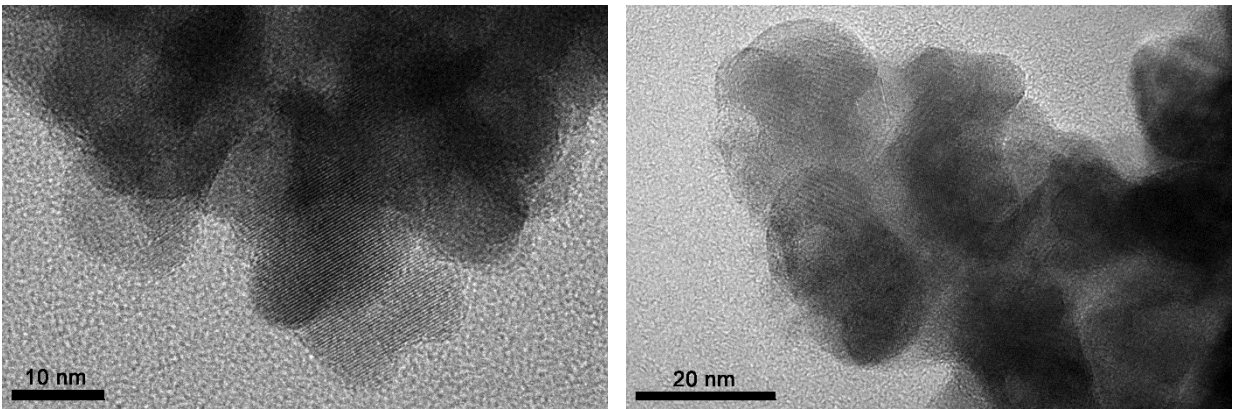
**Fig. S3** XRD pattern of sample C3 with corresponding JCPDS cards and relative intensities of related diffraction peaks



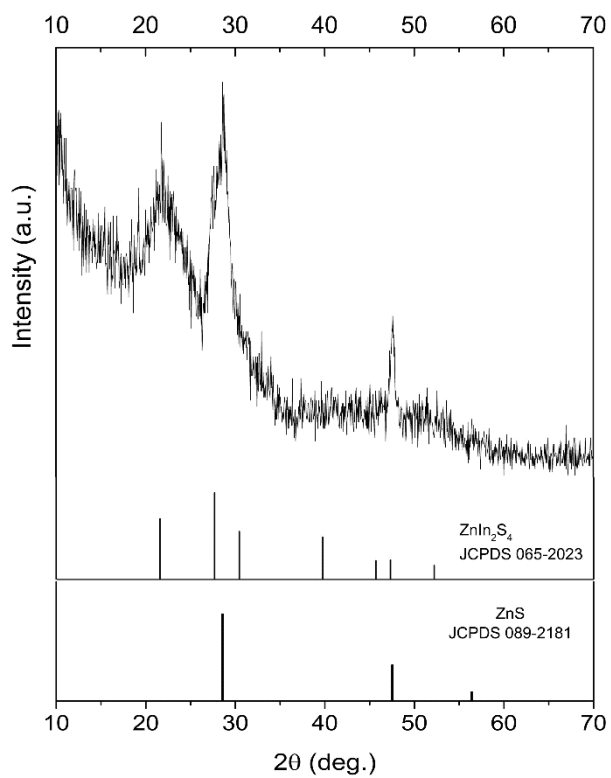
**Fig. S4** Tauc plot of sample C2, with estimated value of band-gap energy



**Fig. S5** TEM images of sample C3 capped with oleic acid/oleylamine dispersed in toluene



**Fig. S6** TEM images of sample C3 capped with 2-mercaptoethanol dispersed in water



**Fig. S7** XRD pattern of sample Z1 with corresponding JCPDS cards and relative intensities of related diffraction peaks