Electronic Supplementary Material (ESI) for CrystEngComm
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Supporting information

Size and Shape Controlled Synthesis of $ZnIn_2S_4$ Nanocrystals with Enhanced Photocatalytic Performance

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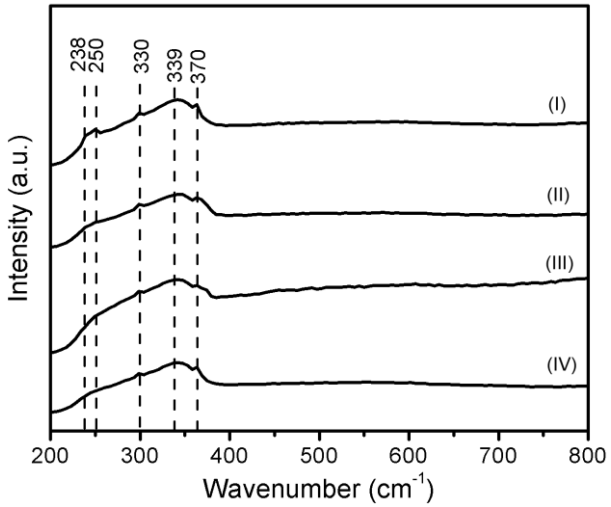

Fig. S1 Raman spectra of the $ZnIn_2S_4$ samples with different sizes: 210 ºC (I), 180 ºC (II), 160 ºC (III), 140 ºC (IV).

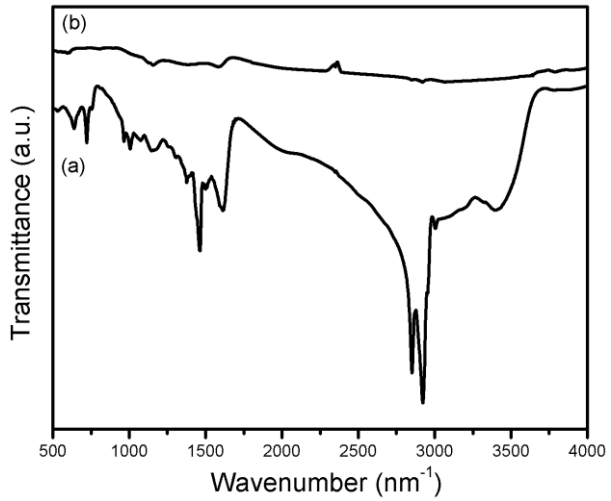

Fig. S2 IR spectra of the 9.1-nm-sized $ZnIn_2S_4$ nanocrystals before (a) and after annealing treatment.

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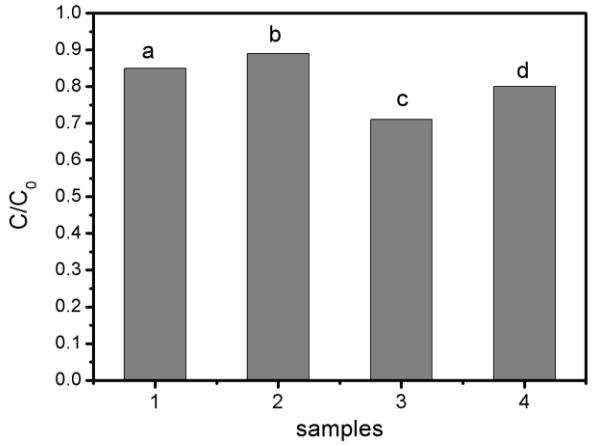

Fig. S3 Bar plots showing the remaining MO dye in solutions after reaching the adsorption–desorption equilibrium in the dark for 30 min with stirring in the presence of unannealed $ZnIn_2S_4$ nanocrystals (a), unannealed $ZnIn_2S_4$ nanoplates (b), annealed $ZnIn_2S_4$ nanocrystals (c), and annealed $ZnIn_2S_4$ nanoplates (d).

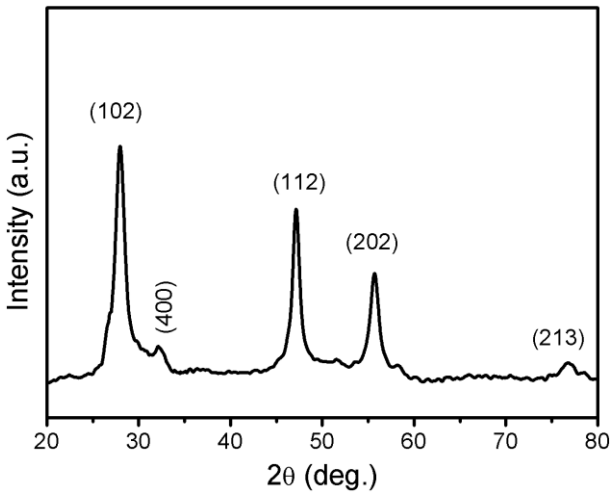

Fig. S4 XRD pattern of the $ZnIn_2S_4$ photocatalyst after degradation process.