Electronic Supplementary Information

Controlled Synthesis of AgInS$_2$ Nanocrystals and Their Application in Organic-Inorganic Hybrid Photodetectors

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**Figure S1.** DLS data of the single- (left) and dimer-AgInS$_2$ (right) NCs, which illustrate that the dimer structures are formed during the reaction, instead of the resultant from the TEM sampling.
Figure S2. Elemental profiles of Ag, In and S (see the red line in the inset HAADF-STEM image). The results illustrate the successful preparation of AgInS$_2$ NCs.
Figure S3. SAED patterns of (a) single-AgInS$_2$ and (b) dimer-AgInS$_2$