

Supporting Information

Tunable Photoluminescence from Visible to Near-infrared Wavelength Region of Non-stoichiometric AgInS₂ Nanoparticles

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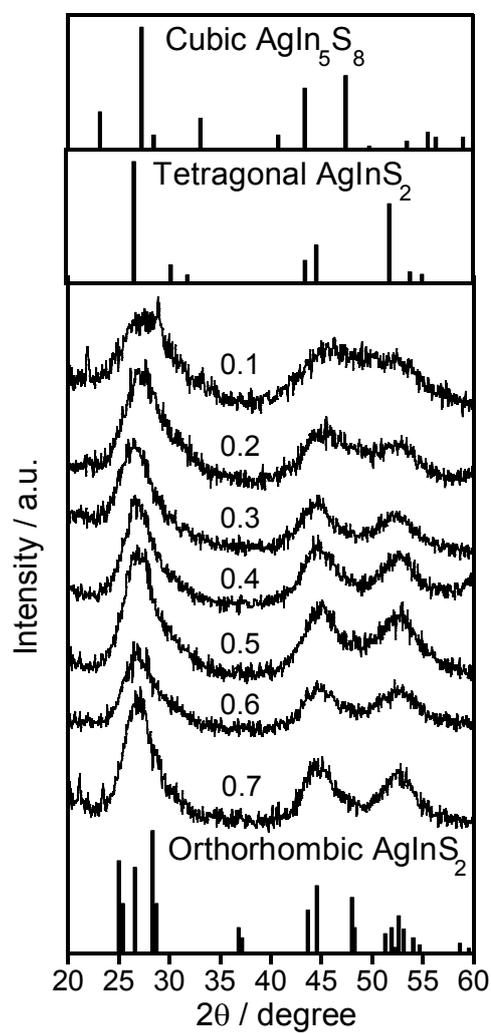


Fig. S1 XRD patterns of OCA-AIS nanoparticles prepared from precursors with various $N_{\text{Ag}}/N_{\text{metal}}$ ratios. The numbers in the figure represent ratios of $N_{\text{Ag}}/N_{\text{metal}}$ in the precursors.

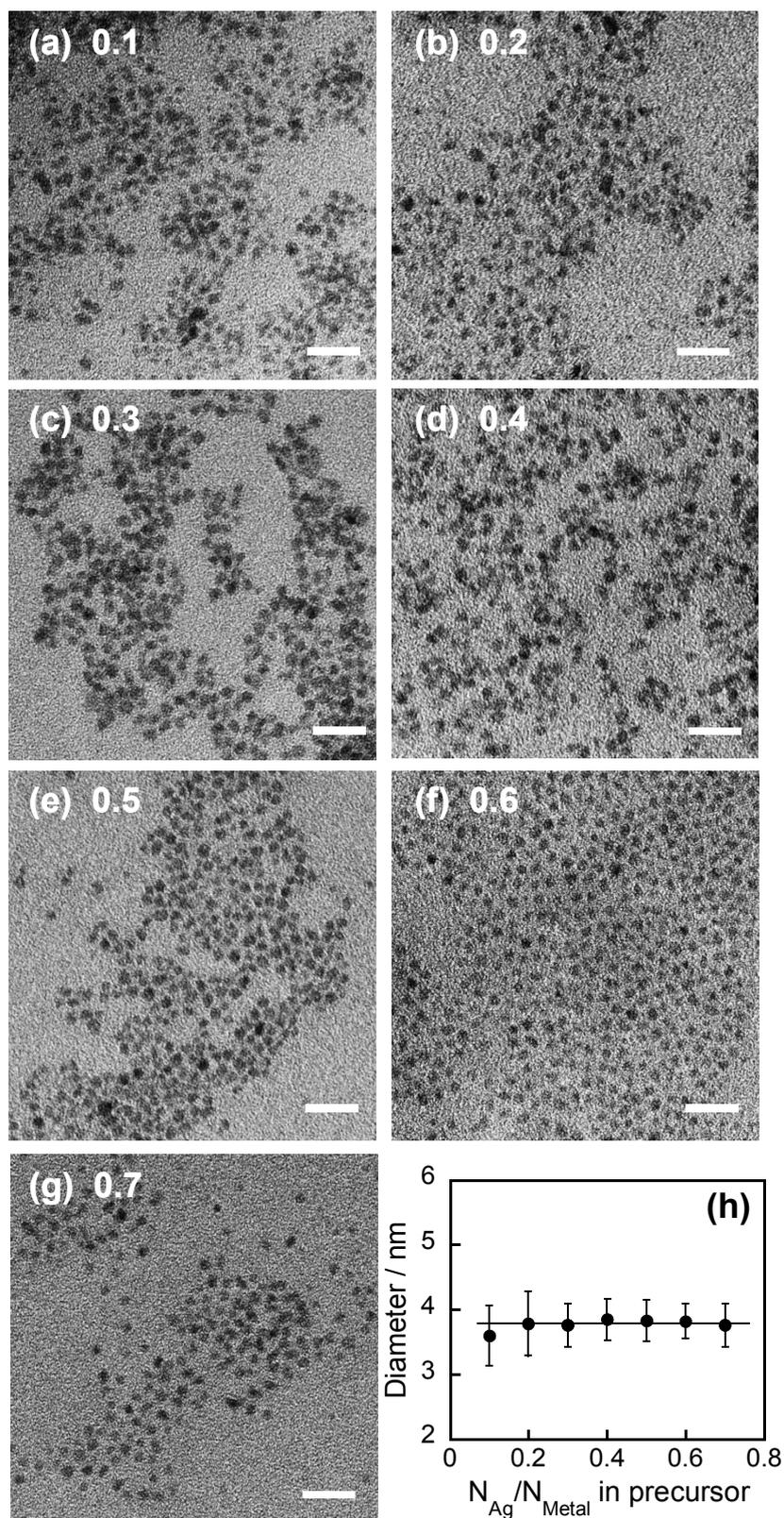


Fig. S2 TEM images of OCA-AIS nanoparticles prepared by the decomposition of precursors having various N_{Ag}/N_{metal} mole ratios (a-g) and the relationship between average diameter (solid circles) and content of Ag in the precursor (h). The numbers represent the ratios of N_{Ag}/N_{metal} in precursors. The scale bars are 20 nm in the TEM images. The error bars in figure h indicate the size distribution.

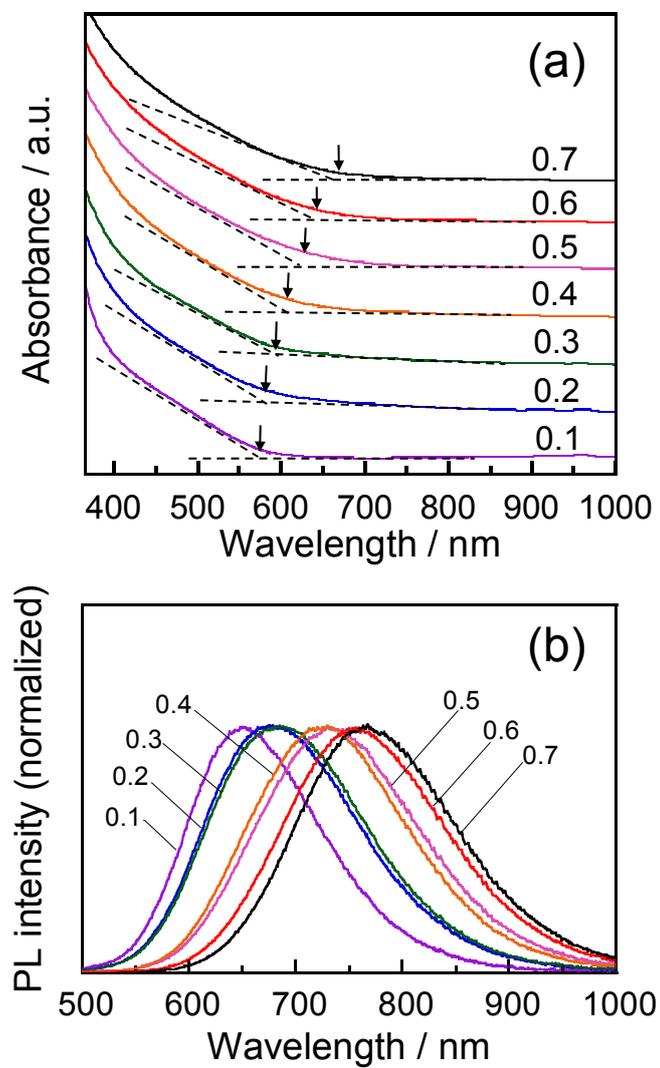


Fig. S3 Absorption spectra (a) and PL emission spectra (b) of OCA-AIS nanoparticles. The excitation wavelength in PL spectra was 430 nm. The numbers in the figures represent the ratios of N_{Ag}/N_{metal} in precursors.