

Supporting Information

A Generalized Strategy for Controlled Synthesis of Ternary Metal Sulfide Nanocrystals

Manjiao Deng, Shuling Shen, Yejun Zhang, Huarui Xu, Qiangbin Wang

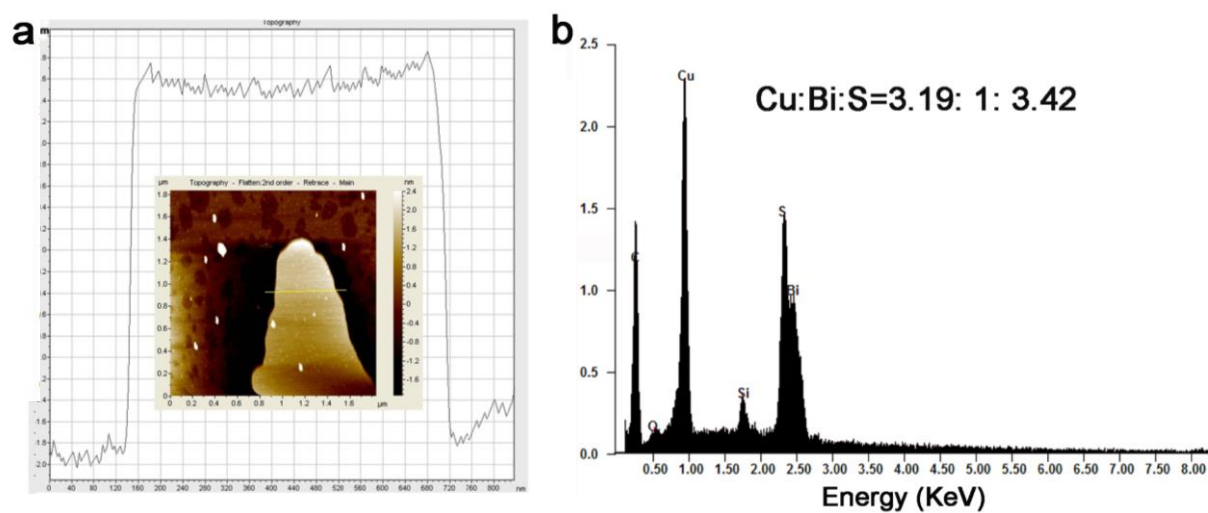


Figure S1. AFM image (a) and EDS pattern (b) of Cu_3BiS_3 nanosheets. Thickness of Cu_3BiS_3 nanosheets is about 4 nm.

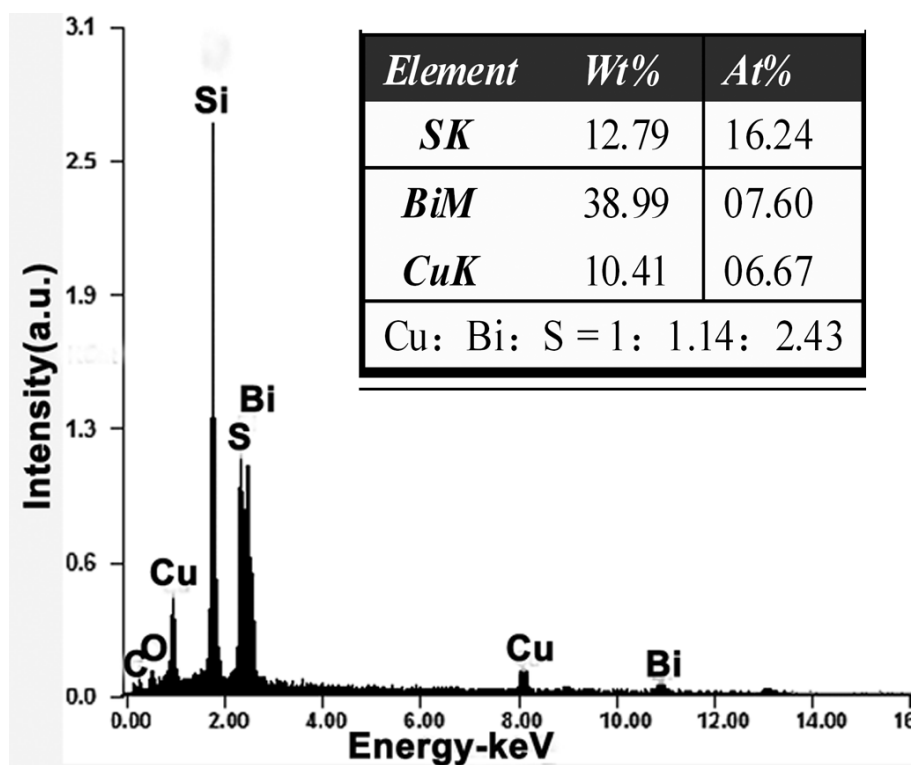


Figure S2. EDS pattern of $\text{Cu}_4\text{Bi}_4\text{S}_9$ nanowires.

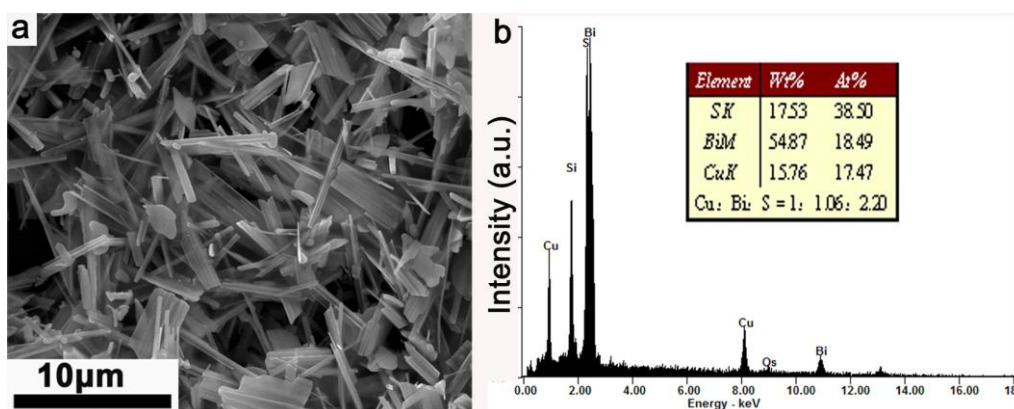


Figure S3. SEM image (a) and EDS pattern (b) of $\text{Cu}_4\text{Bi}_4\text{S}_9$ nanoribbons.

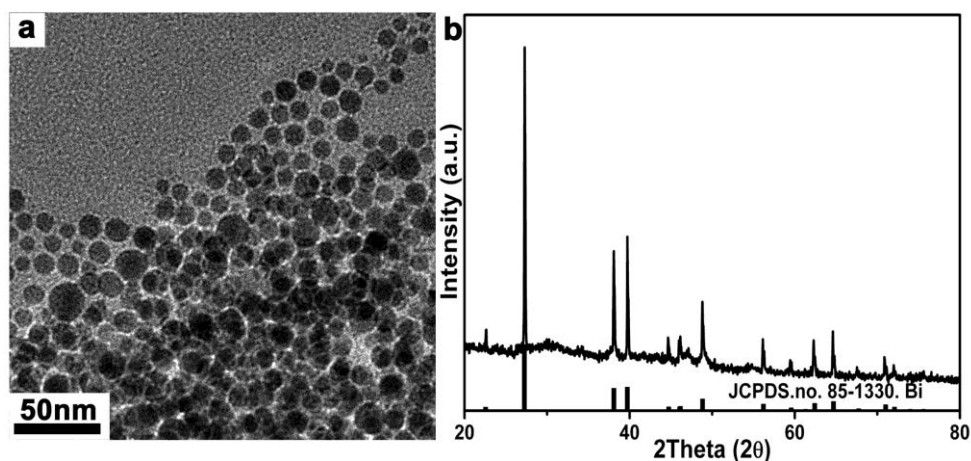


Figure S4. TEM image (a) and XRD pattern (b) of Bi nanoparticles synthesized by $\text{Cu}(\text{DDTC})_2$ and $\text{Bi}(\text{DDTC})_3$ in the DT solution at 220 °C for 1 h.

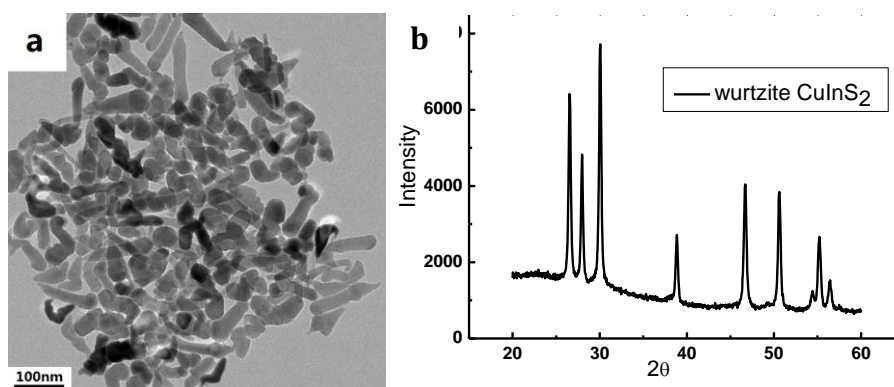


Figure S5. TEM image (a) and XRD pattern (b) of tadpole-shaped CuInS_2 nanoparticles synthesized at $\text{Cu}(\text{DDTC})_2\text{Phen} : \text{In}(\text{DDTC})_3=1:1$ in the DT solution at 240 °C for 1 h.

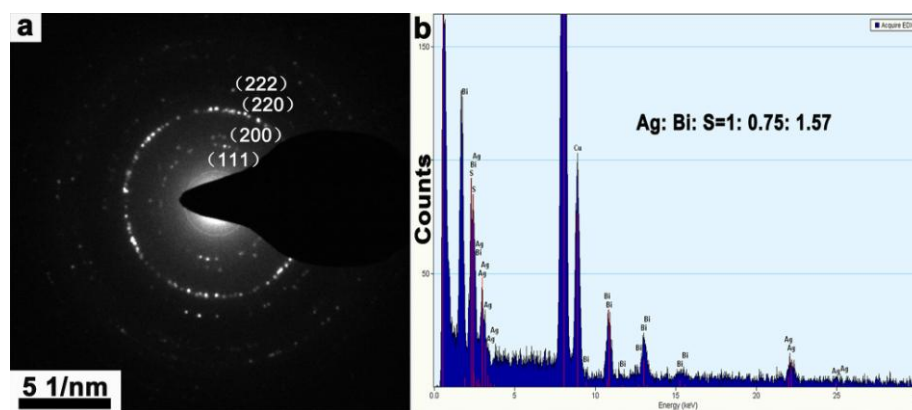


Figure S6. SAED pattern (a) and EDS pattern (b) of AgBiS_2 nanoparticles.

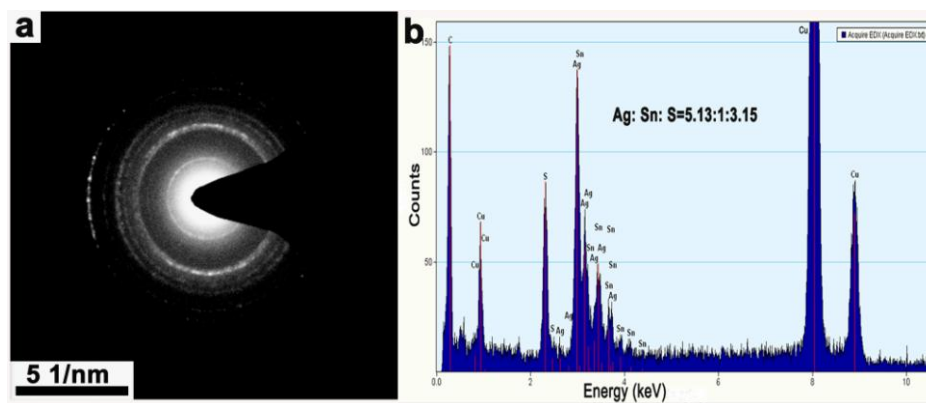


Figure S7. SAED pattern (a) and EDS pattern (b) of Ag_8SnS_6 nanoparticles.