

Seed-Mediated Growth for Aspect-Ratio-Tunable Copper Nanoplates

Yu Zhou,^{ab} Ying Liang,^{*a} Bin Fang,^a Shuanglong Yuan^b and Zhen Zhang^{*a}

^a School of Physics, East China University of Science and Technology, Shanghai 200237, P. R. China.

^b School of Materials Science and Engineering, East China University of Science and Technology,
Shanghai 200237, P. R. China.

Corresponding Authors: yliang@ecust.edu.cn (Y.L.); zhangzhen@ecust.edu.cn (Z.Z.)

Tab. S1 Influence of lateral dimension of Ag NPs on the size and yield of Cu NPs.

Ag NPs		Cu NPs		
Lateral dimension (μm)	Amount (mg)	Lateral dimension (μm)	Yield (mg)	Proportion (%) $(m_{\text{Cu}}/(m_{\text{Ag}} + m_{\text{Cu}})) \times 100\%$
0.55	6	1.35	78	92
1.18	8	1.45	81	90
2.44	25	3.98	93	73

Tab.S2 The variation of yield, aspect ratio, and copper proportion of Cu NPs with growth cycles.

Growth cycle	Amount of Ag NPs (mg)	Yield (mg)	Aspect ratio of Cu NPs	Proportion (%) $(m_{\text{Cu}}/(m_{\text{Ag}} + m_{\text{Cu}})) \times 100\%$
1	25	82	11.1	70
2	25	144	8.2	83
3	25	215	4.0	88