Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

Maneuvering the Growth of Silver Nanoplate: Use of Halide Ions to Promote Vertical Growth

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Supporting Figures

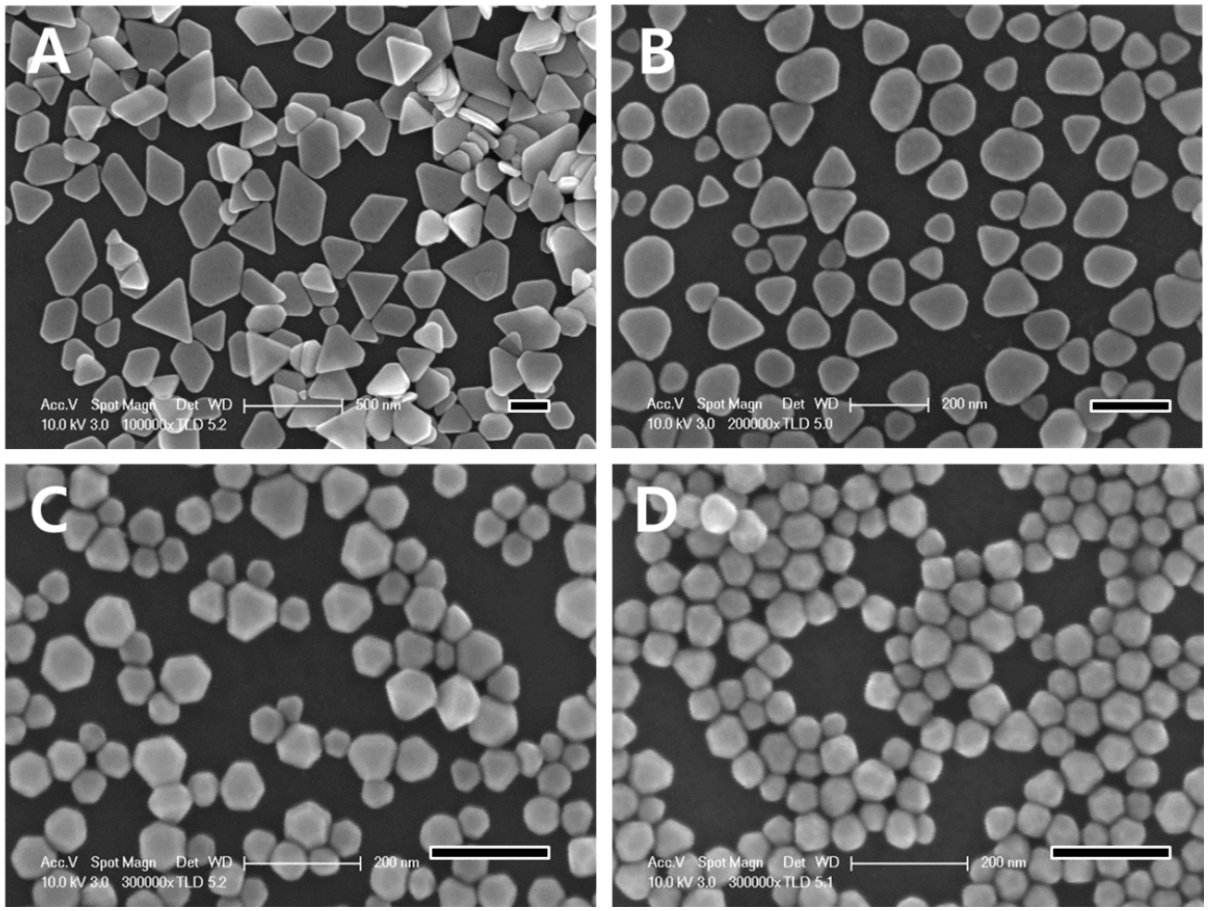

Fig. S1 SEM images of the Ag nanoplates shown in Figure 1 (scale bar = 200 nm for all images).

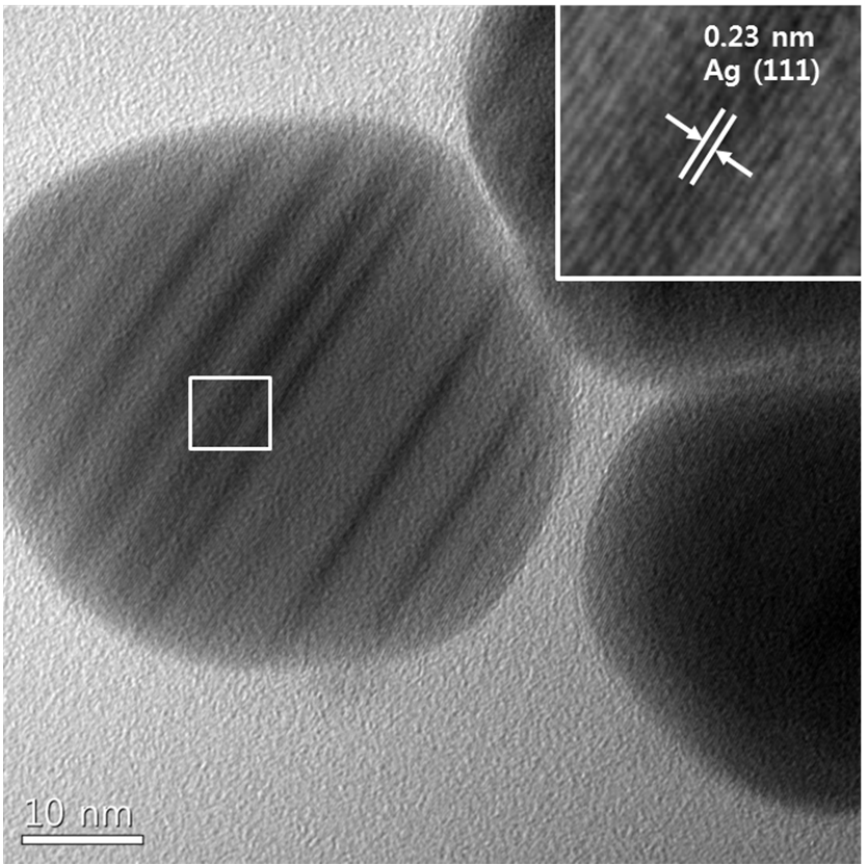

Fig. S2. High-resolution TEM image of Ag nanoplates formed in the presence of I^-. The inset shows the lattice spacing of the Ag nanoplate.

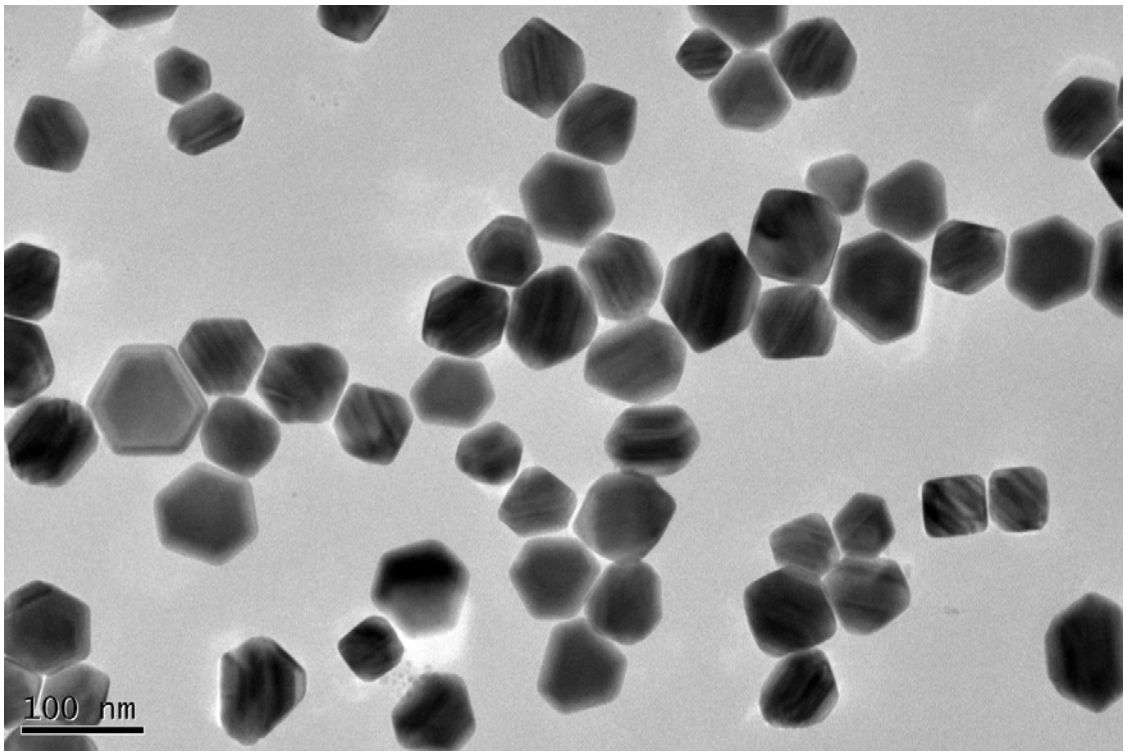

Fig. S3 TEM image of Ag nanoplates formed in the presence of NaI.

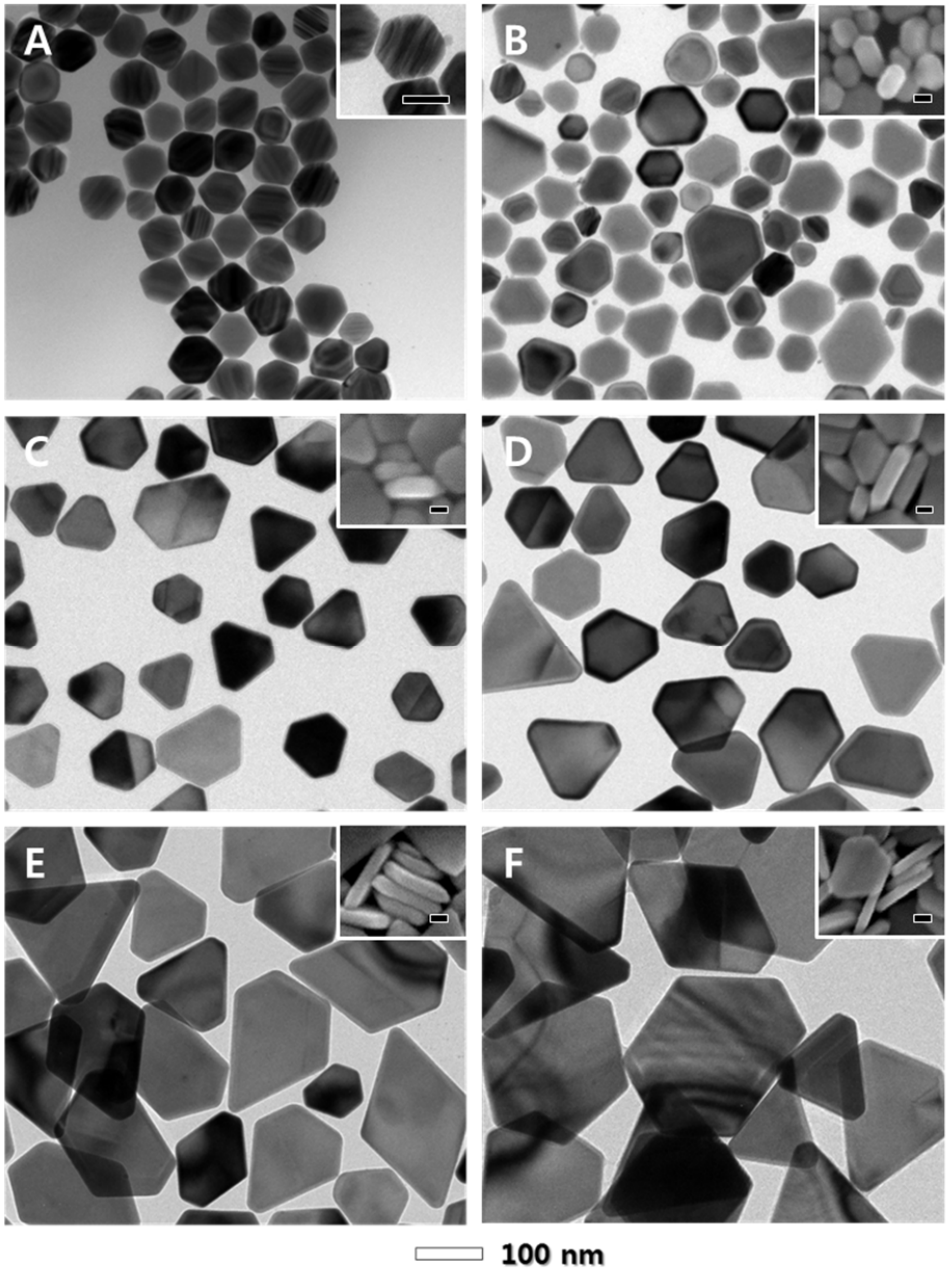

Fig. S4. TEM images of Ag nanoplates shown in Figure 3. The inset in A shows TEM image taken from samples in which the nanoplate was oriented vertically on the substrate (scale bar = 50 nm). The insets of (B)-(F) show SEM images taken from samples in which the nanoplates were oriented vertically on the substrate (scale bar = 50 nm).

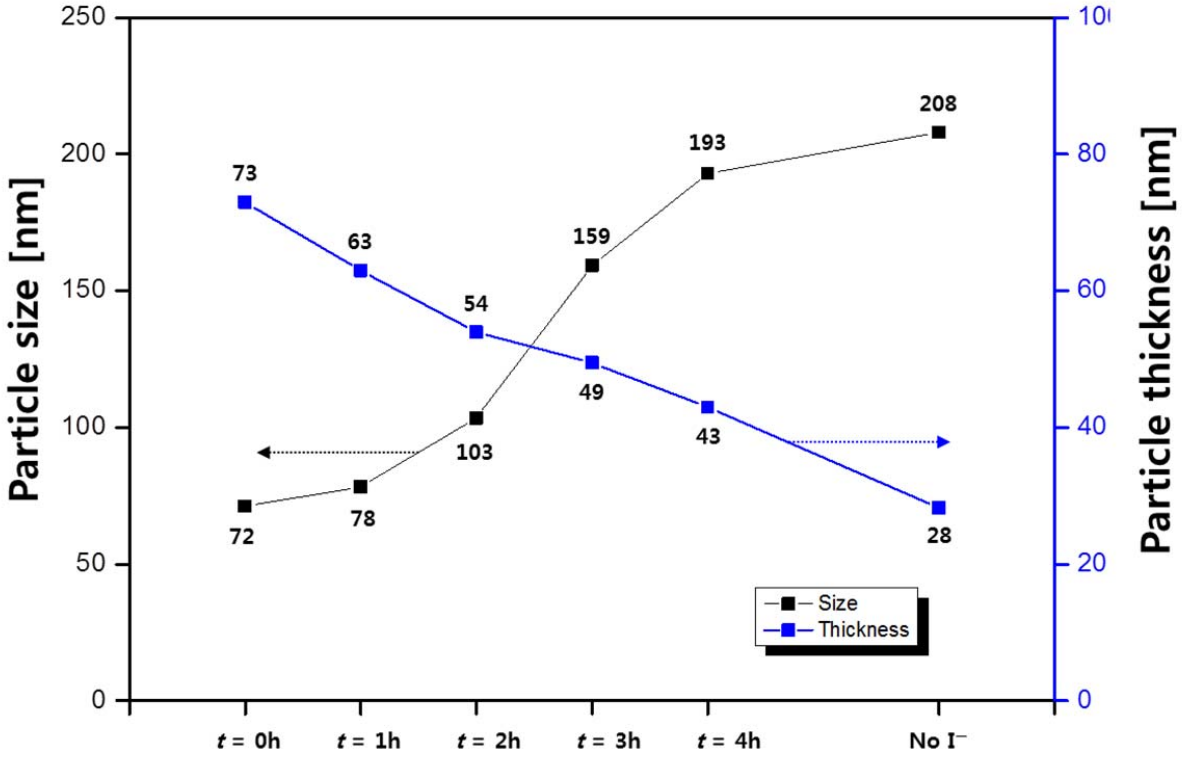

Fig. S5. Plots of the average particle size and thickness of the Ag nanoplates showin in Fig. S4 as a function of the time, during the nanoplate growth process, at which the iodide ions were added.

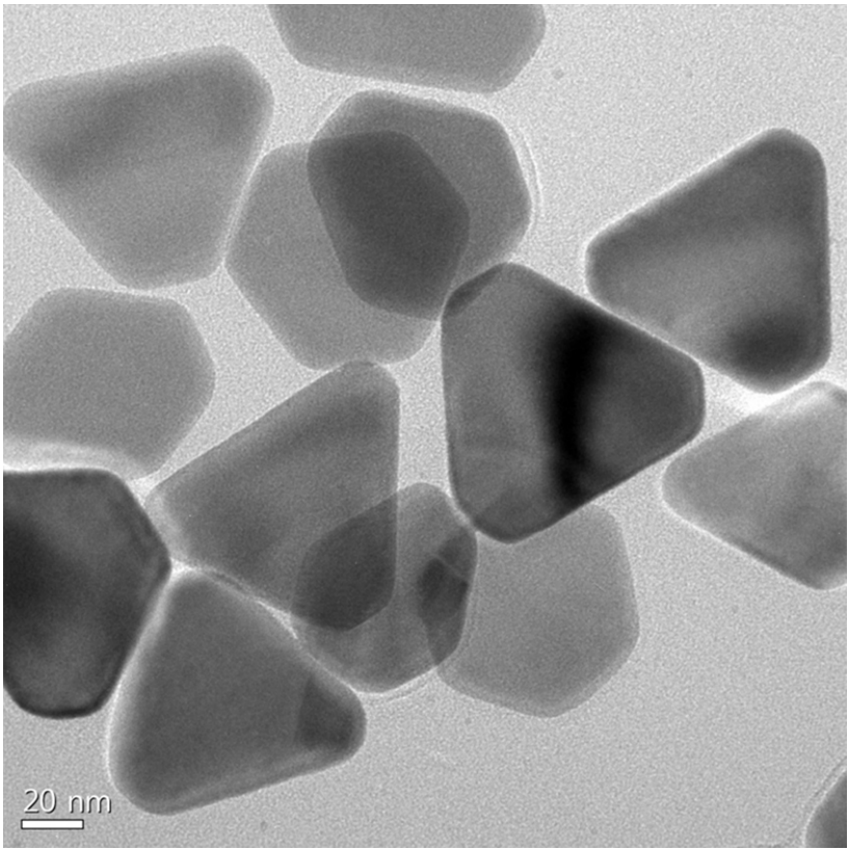

Fig. S6. TEM image of Ag nanoplates. The synthesis was performed by decreasing the concentration of the iodide to 1/2.