Electronic supplementary information

Facile Cl⁻-mediated hydrothermal synthesis of large-scale Ag nanowires from AgCl hydrosol

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Characterization:

Powder X-ray diffraction (XRD) measurement of the samples was performed with a Philips PW3040/60 X-ray diffractometer using Cu Kα radiation at a scanning rate of 0.06 deg s⁻¹. Scanning electron microscope (SEM) was performed with a Hitachi S-4800 scanning electron micro-analyzer with an accelerating voltage of 15 kV. Transmission electron microscope (TEM) and high-resolution transmission electron microscope (HRTEM) were conducted at 200 kV with a JEM-2100F field-emission TEM. The absorption spectra were measured using a PerkinElmer Lambda 900 UV-vis spectrophotometer at room temperature.

Scheme S1. Formulas of PVP structural changes involved in the oxidation by AgCl hydrosol.
**Fig. S1** XRD patterns of (a) AgCl particles obtained in the absence of PVP, (b) and (c) Ag nanostructures obtained with the different concentrations of NaCl.