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An Eco-Friendly Nitrate-Free Method for the Synthesis of Silver Nanowires with Reduced Diameters

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Supporting Information

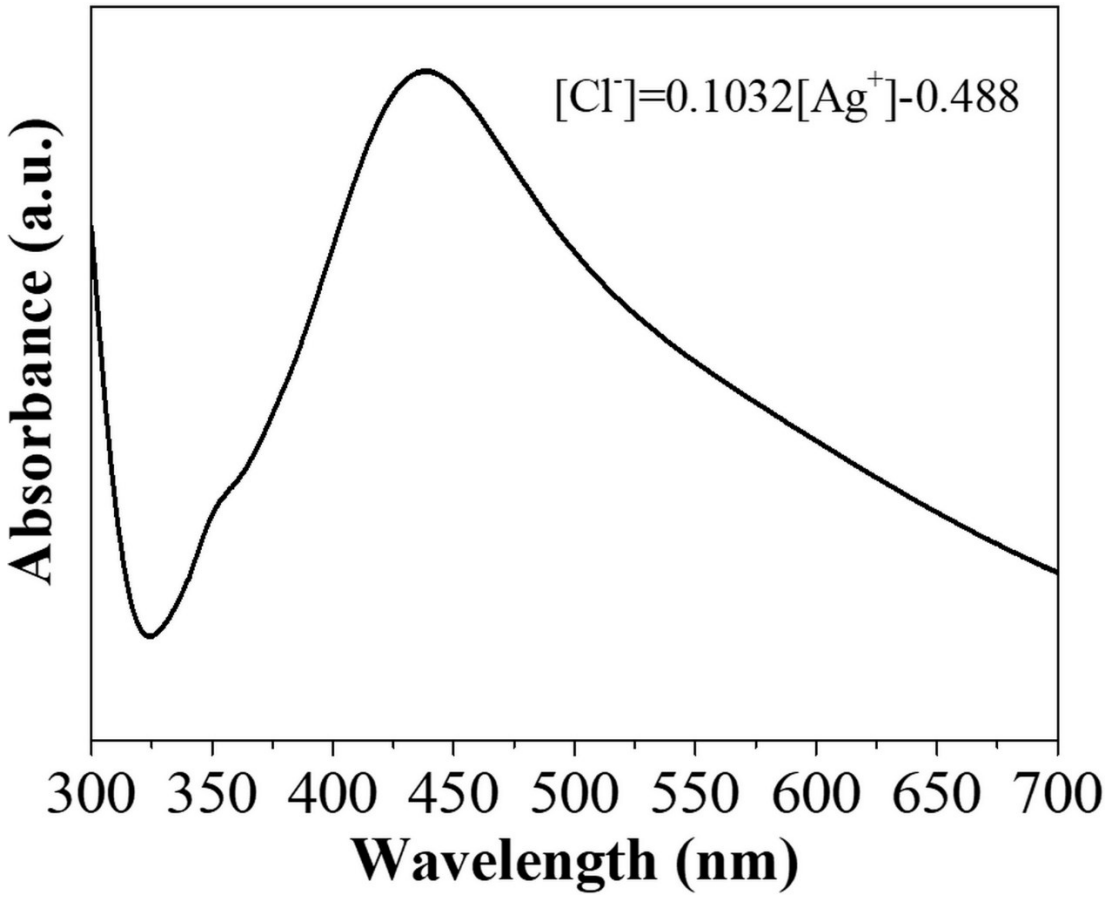

Figure S1. UV-vis absorption spectrum of Ag NWs synthesized by AgOAc precursor with trace Cl^- as the normal hydrothermal method reported before.[R1] No characteristic peaks of Ag NWs was found.

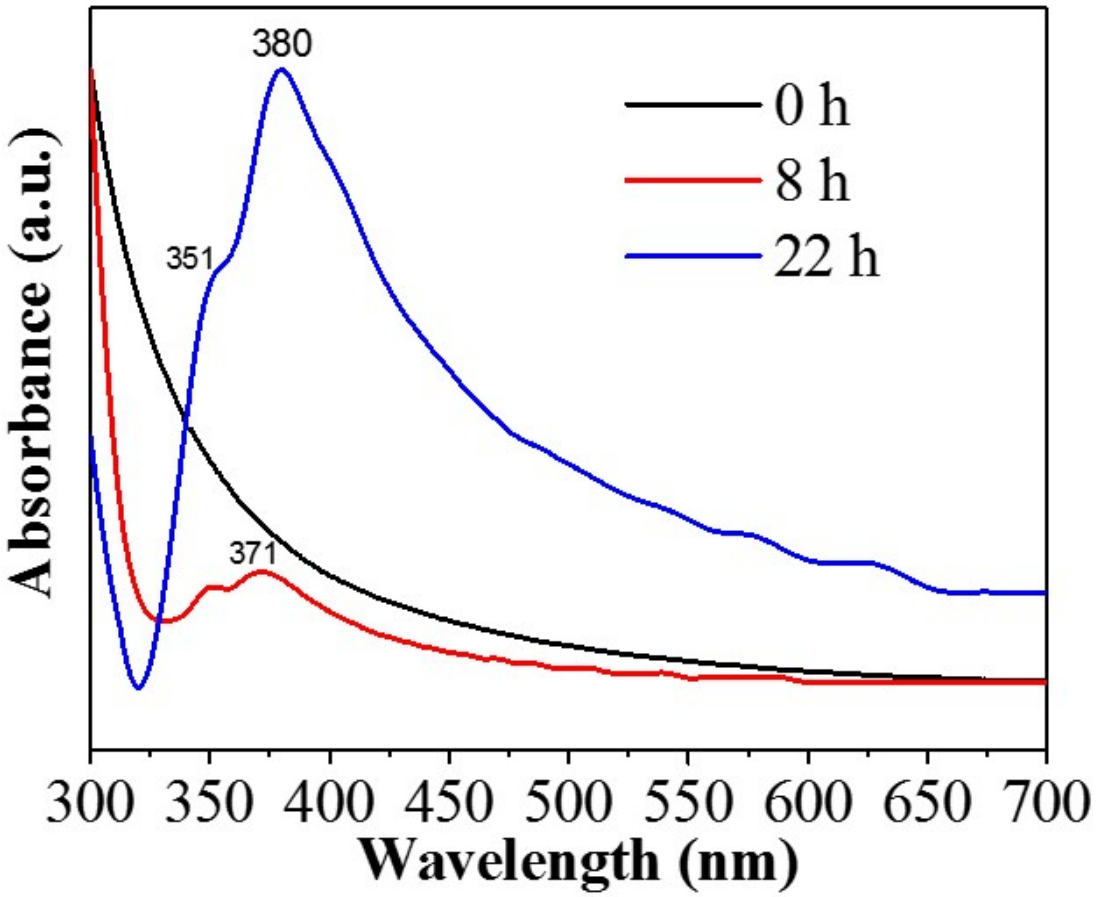

Figure S2. UV-vis absorption spectra of the Ag NWs synthesized by $AgNO_3$ precursor for different reaction times. The red-shift of the characteristic peaks of Ag NWs from 371 to 380nm proved thicker Ag NWs with longer reaction time.

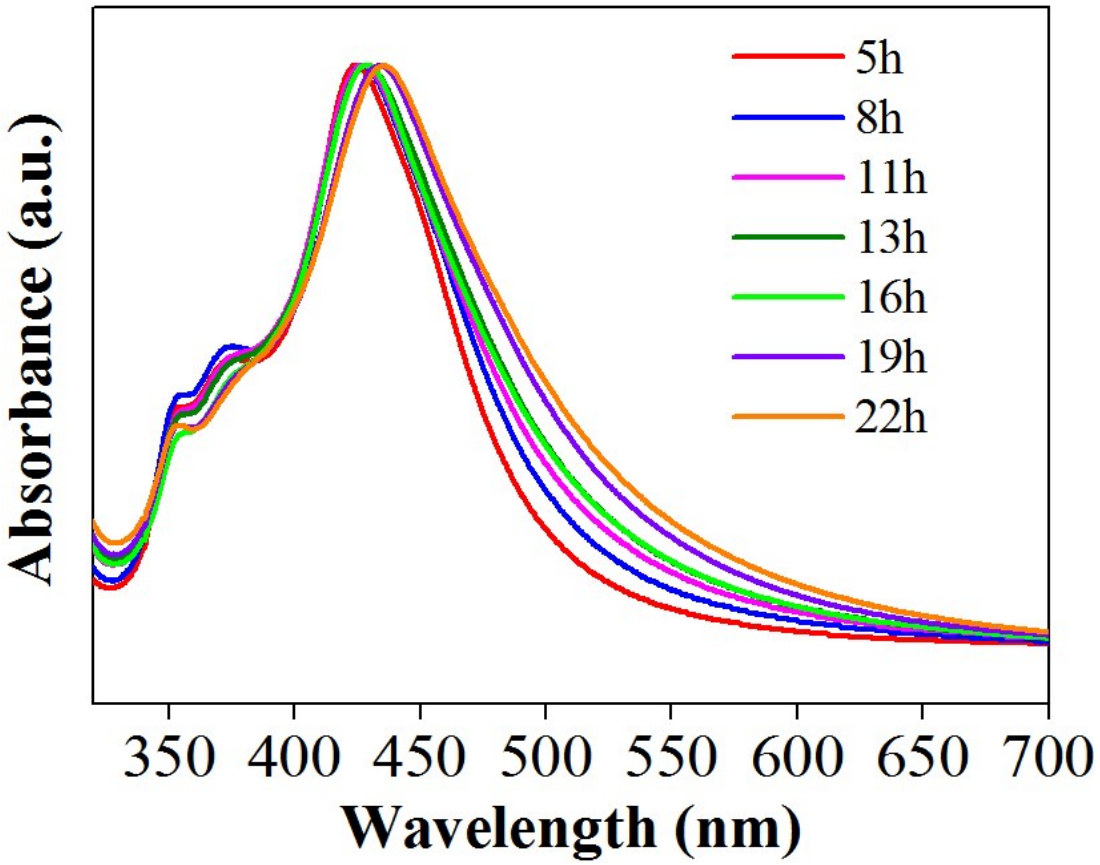

Figure S3. UV-vis absorption spectra of the Ag NWs synthesized by typical AgOAc progress, but the reacting autoclave opened in air many times while taking samples at different time intervals as illustrated above. The missing of the characteristic peaks of Ag NWs proves few Ag NWs in the final products.

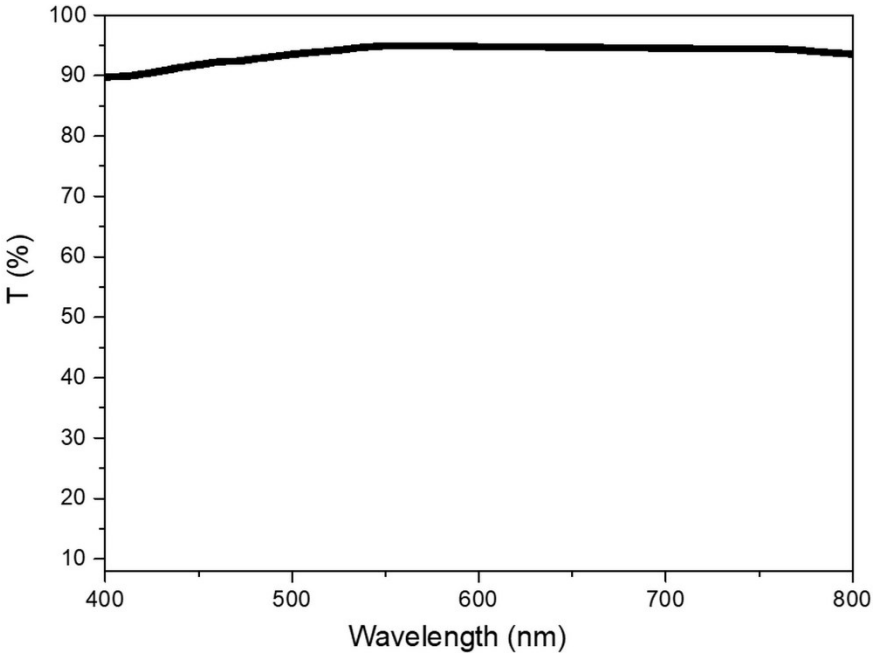

Figure S4. Vis-transmittance spectra of the Ag NWs film of 100 Ω/sq

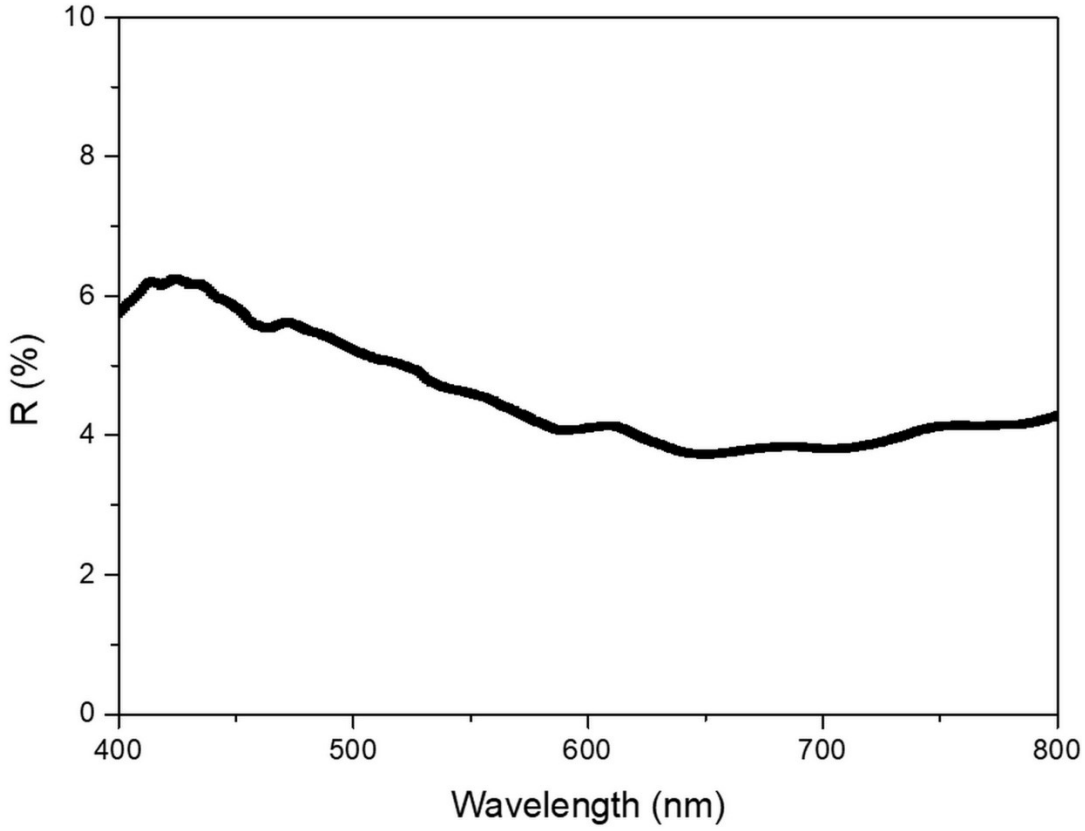

Figure S5. Reflection spectra of the Ag NWs film of 100 Ω/sq