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**Supporting Information**

# A Solventless Mix-Bake-Wash Approach to the Facile Controlled Synthesis of Core-Shell and Alloy Ag-Cu Bimetallic Nanoparticles

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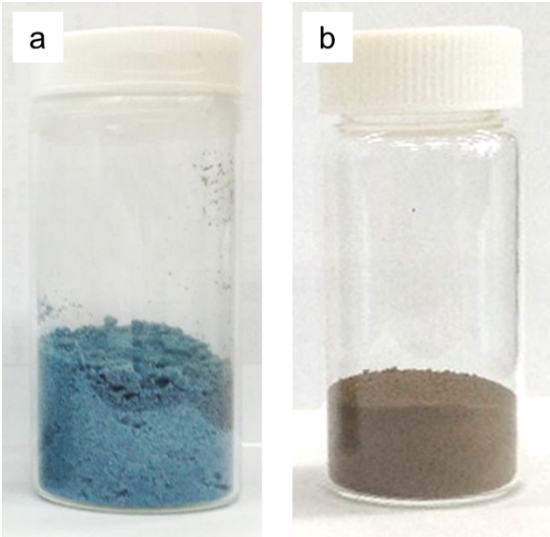


**Figure S1.** Digital photographs of (a) sodium sulfate powder mixed with Ag and Cu precursor solutions and ground by a mortar and pestle and (b) the powder after heat treatment at 400 °C.

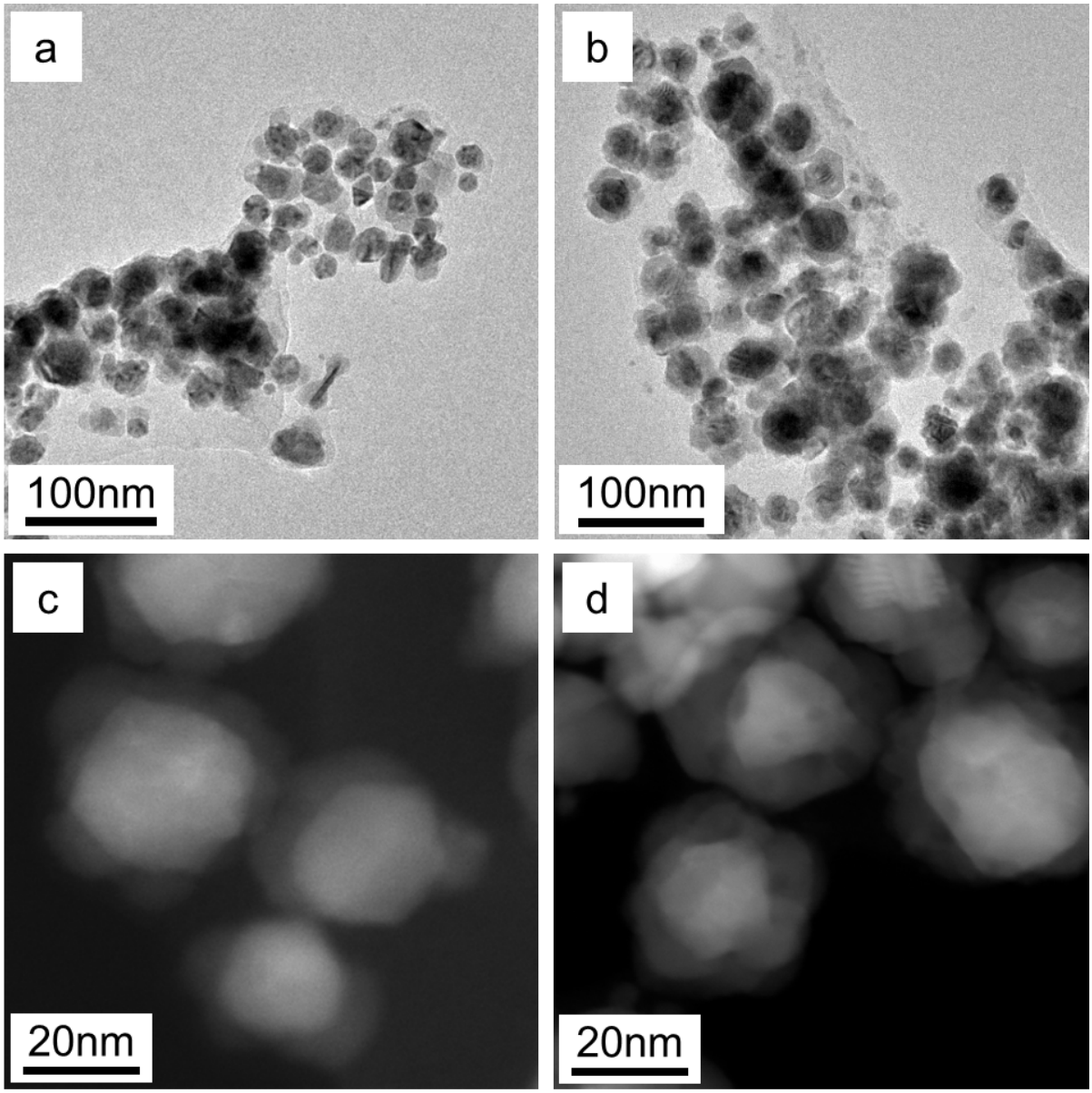


**Figure S2.** TEM and HAADF-STEM images of Ag@Cu core-shell NPs with different molar ratios of Ag to Cu; (a, c) Ag:Cu = 1:1 and (b, d) Ag:Cu = 1:3.

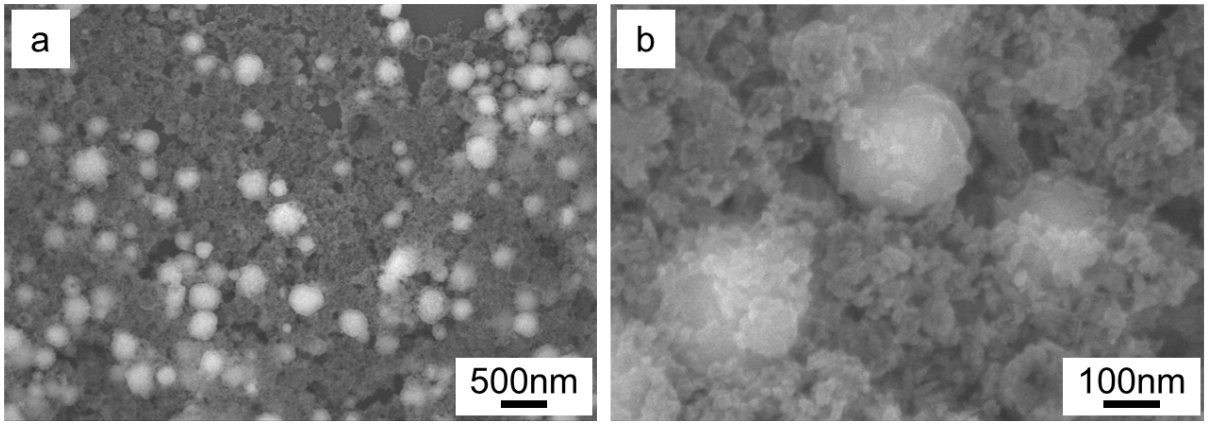


**Figure S3.** SEM images of Ag-$Cu_xO$ (x=1, 2) hybrid NPs prepared under the same reaction conditions for Ag@Cu core-shell NPs, but without salt powders.