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Controlling Silver Morphology on Cramped Optical Fiber Facet by PVP-assisted Silver Mirror Reaction for SERS Fiber Probe Fabrication

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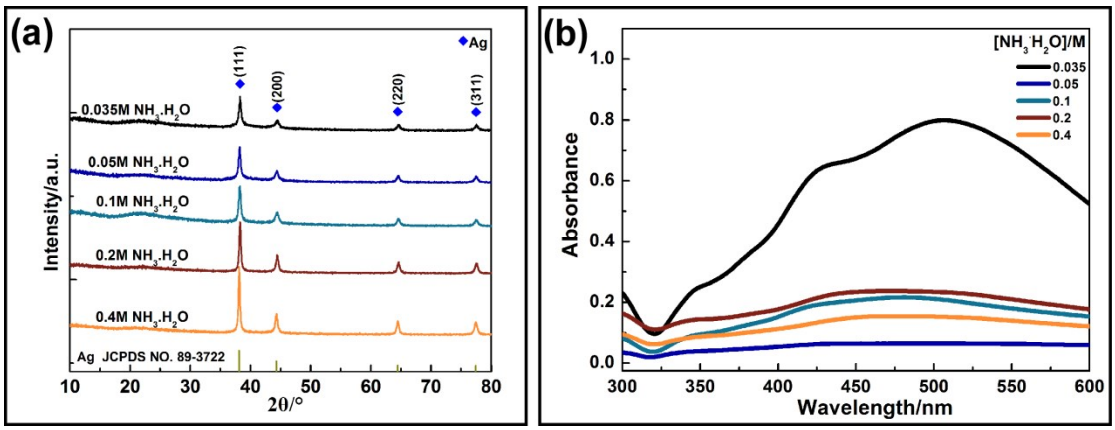

Fig. S1. XRD patterns (a) and UV-VIS absorption spectra (b) of silver synthesized with different concentrations of ammonium hydroxide (0.035, 0.05, 0.1, 0.2 and 0.4 mol/L).

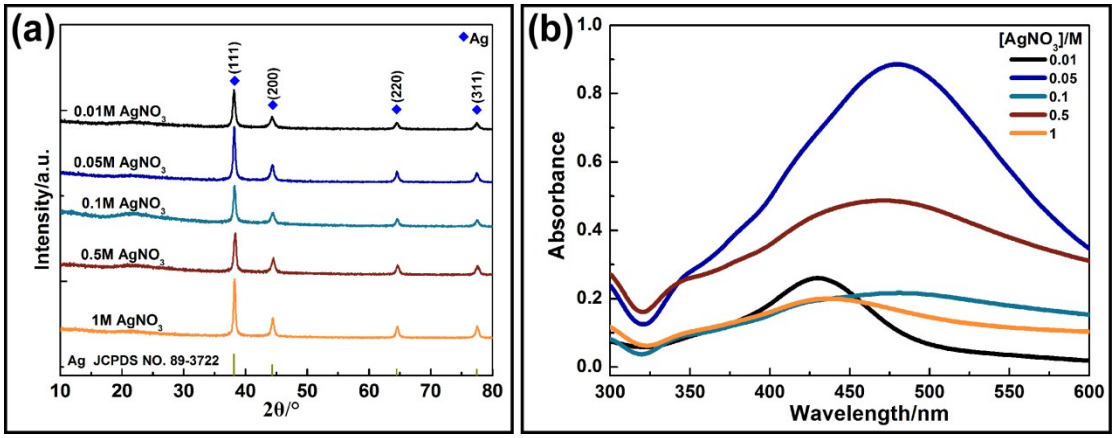

Fig. S2. XRD patterns (a) and UV-VIS absorption spectra (b) of silver synthesized with different concentrations of silver nitrate (0.01, 0.05, 0.1, 0.5 and 1 mol/L).

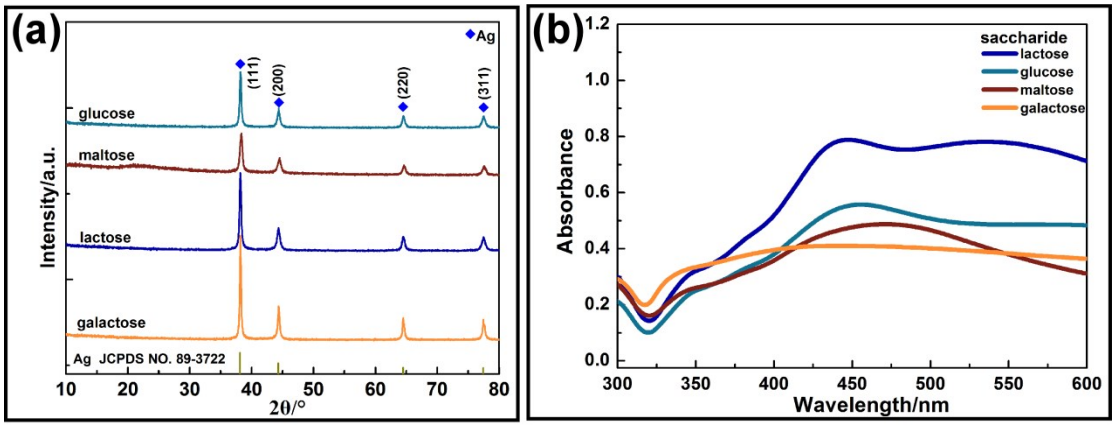

Fig. S3. XRD patterns (a) and UV-VIS absorption spectra (b) of silver synthesized with different reducing saccharides (glucose, maltose, lactose and galactose).

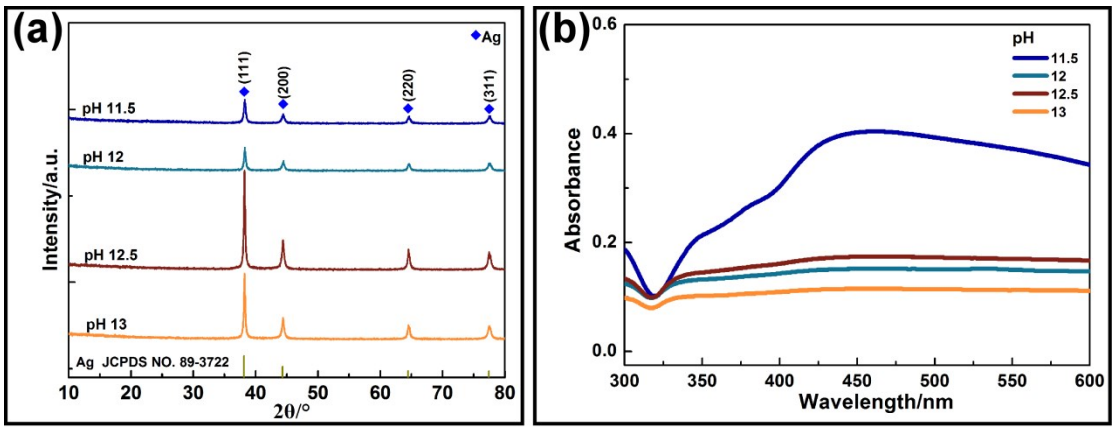

Fig. S4. XRD patterns (a) and UV-VIS absorption spectra (b) of silver synthesized with different pH values of Tollens solution (11.5, 12, 12.5 and 13).