Electronic Supplementary Material (ESI) for RSC Advances.


**Supporting information for:**

# A general seed-mediated approach to the synthesis of AgM (M = Au, Pt, and Pd) core-shell nanoplates and their SERS properties

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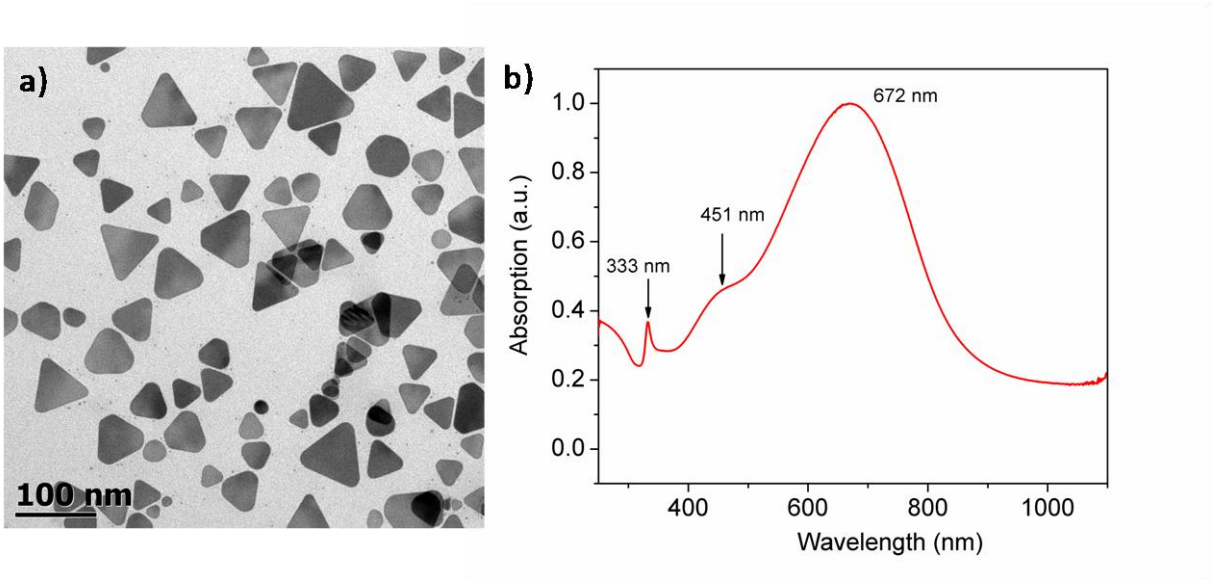


**Figure S1**. (a) TEM image of Ag nanoplates. (b) UV-vis spectra of dispersion of Ag nanoplates dispersed in DI water.

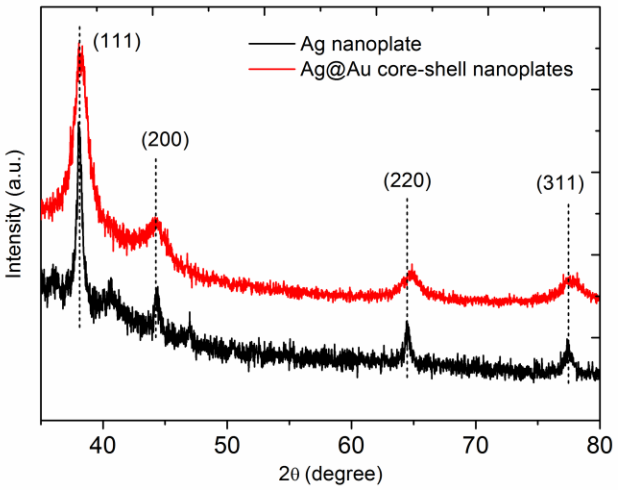


**Figure S2.** XRD pattern of the Ag nanoplates and Ag@Au core-shell nanoplates.

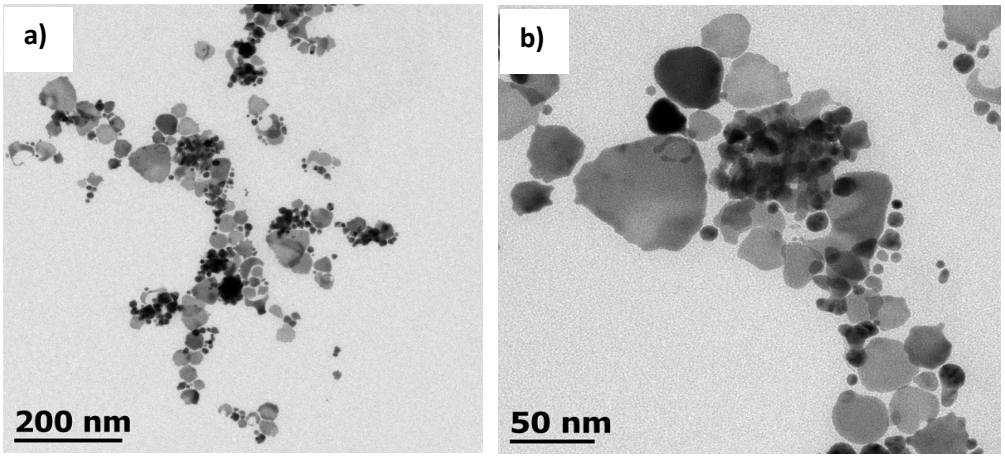


**Figure S3**. a) Low, and b) high-magnification TEM images of typical Ag@Au nanoplates prepared using the same condition without introducing PVP into the reaction mixture.

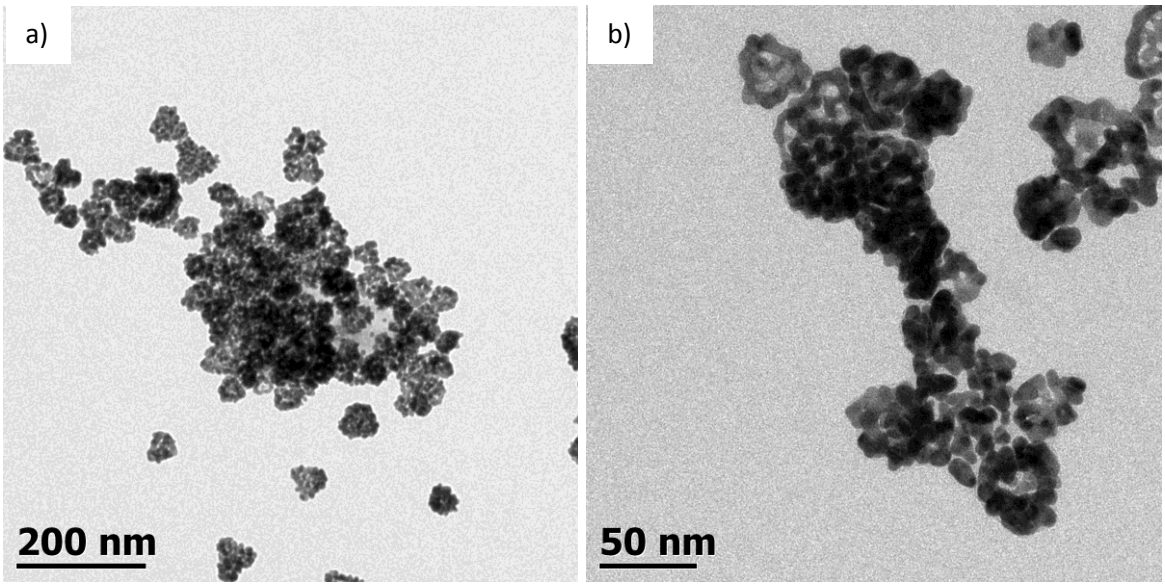


**Figure S4.** a) Low, and b) high-magnification TEM images of typical Ag@Au core-shell nanoplates using the standard procedure with high PVP content (100 mg) in the solution mixture; showing the porous features on the surface.

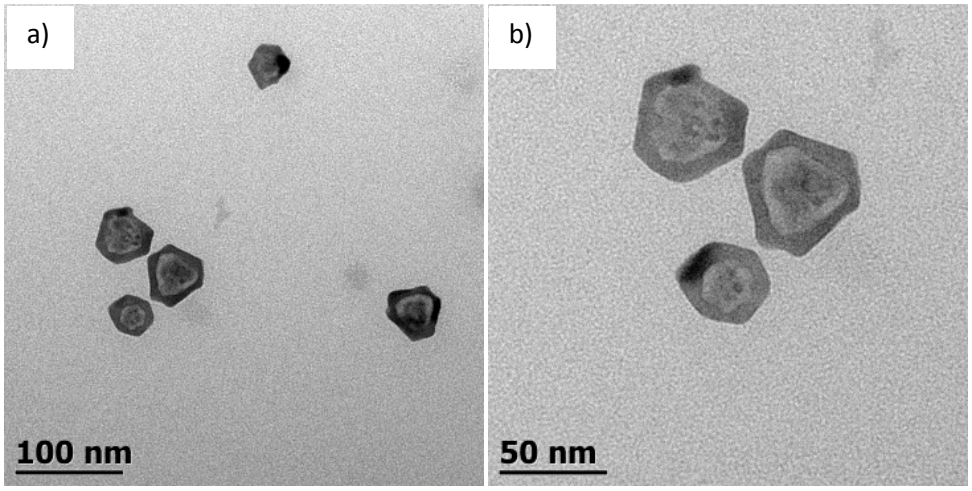


**Figure S5.** TEM images of typical Ag@Au core-shell nanoplates using the standard procedure only replacing PVP to CTAB.

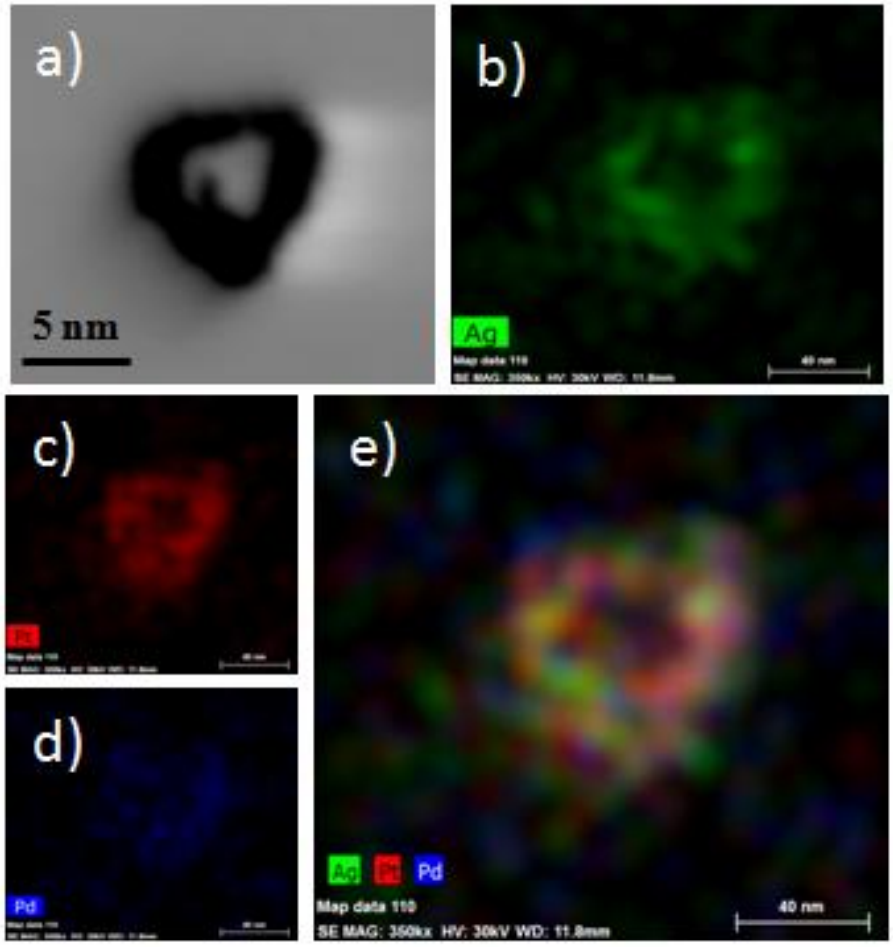


**Figure S6**. a) HAADF-STEM of triangular Ag@PtPd trimetallic hollow nanoparticles. b-e) EDX-elemental mapping of the individual Ag@PtPd showing Ag (Green), Pt (Red), Pd (Blue) and e) overlay of the signals of Ag@PtPd signals.