

Figure S1: Powder X-ray diffraction from different interfacial films of nanocrystals. The composition is indicated in the figure.

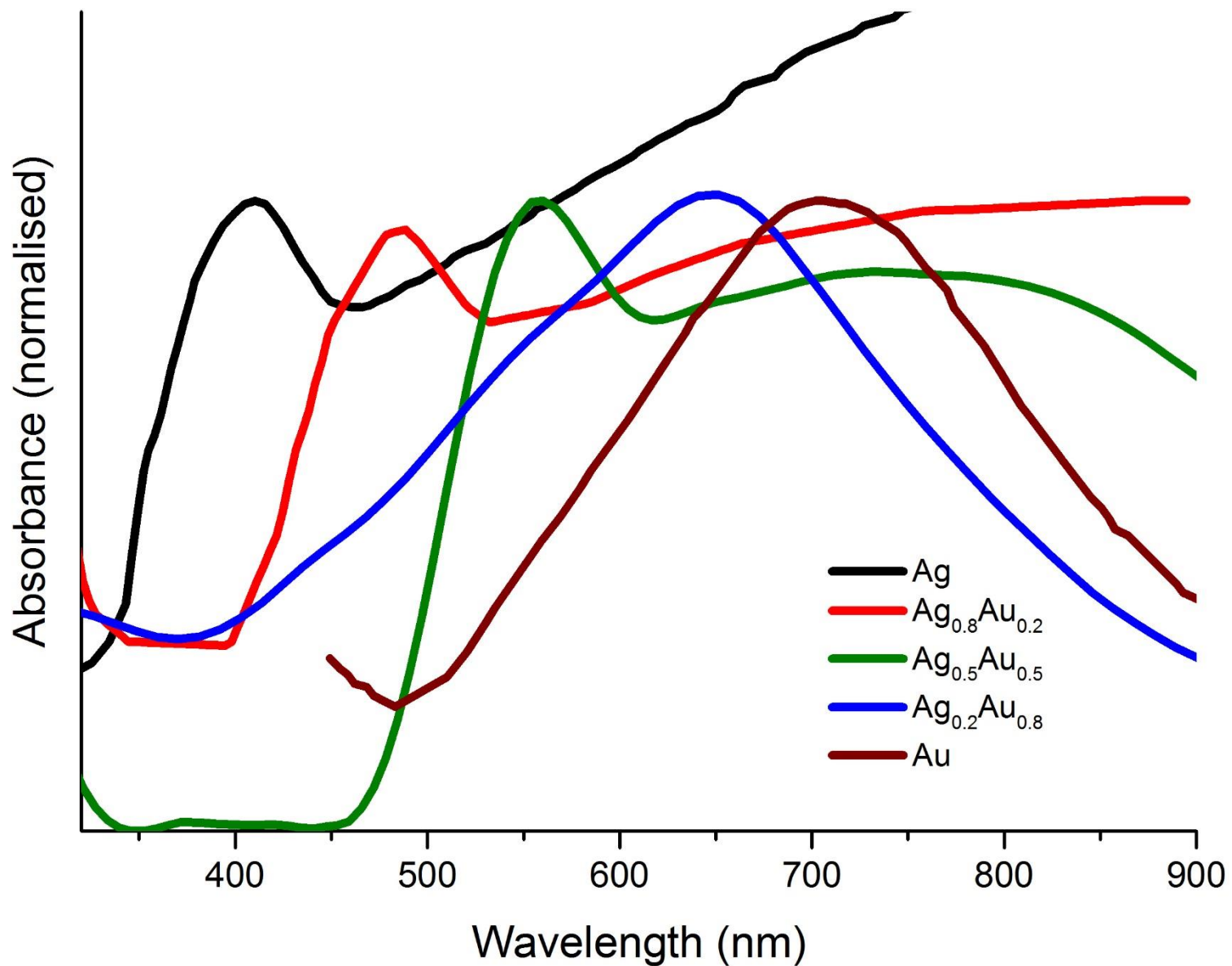


Figure S2: Absorption spectra from different interfacial films of nanocrystals. The composition is indicated.

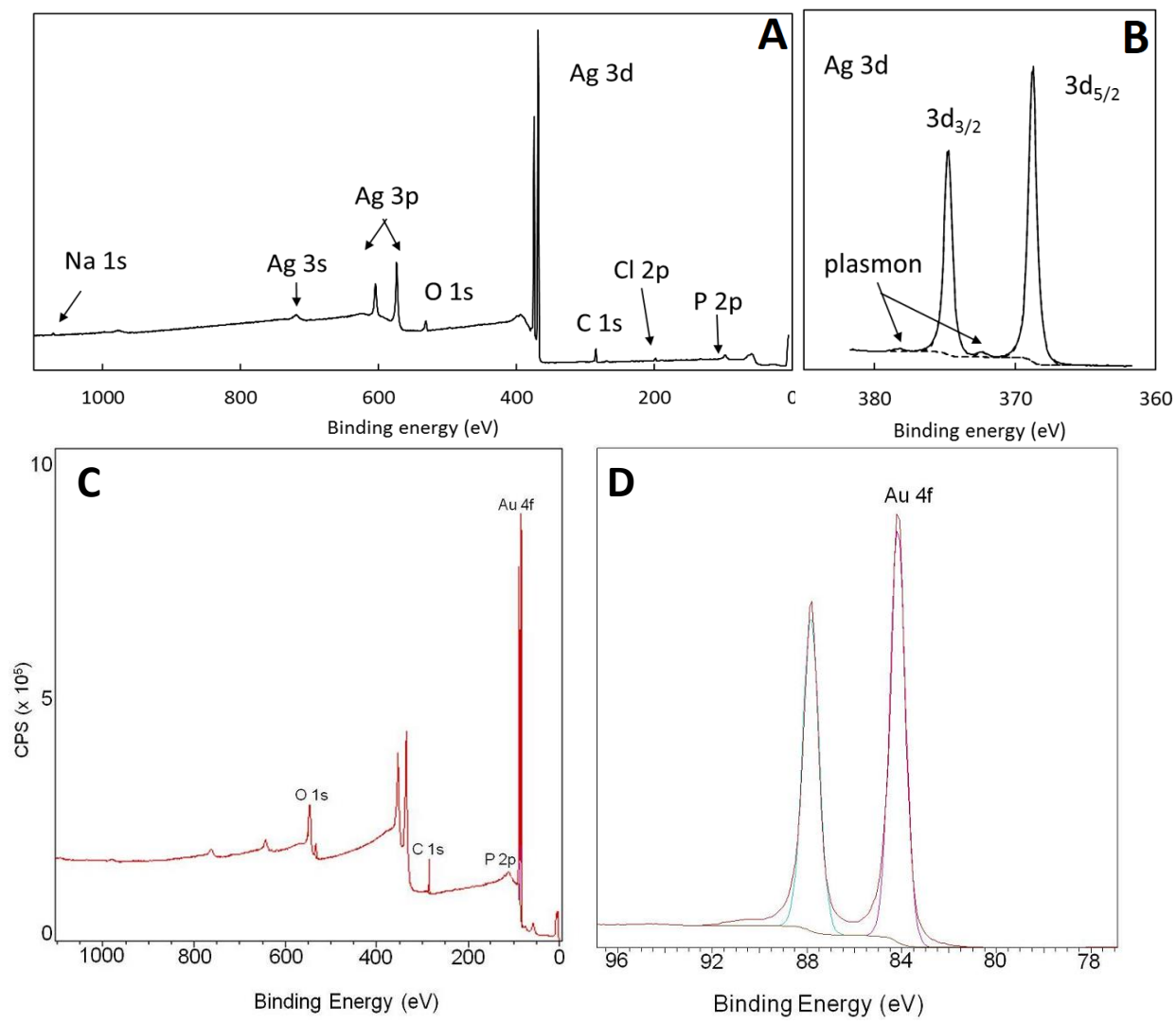


Figure S3: X-ray photoelectron spectra obtained from the films of nanocrystals (A) survey scan from film of Ag nanocrystals; (B) high resolution scan over the Ag 3d region; (C) survey scan from film of Au nanocrystals; (D) high resolution scan over the Au 4f region.