Stepwise Interfacial Self-Assembly of Nanoparticles via Specific DNA Pairing

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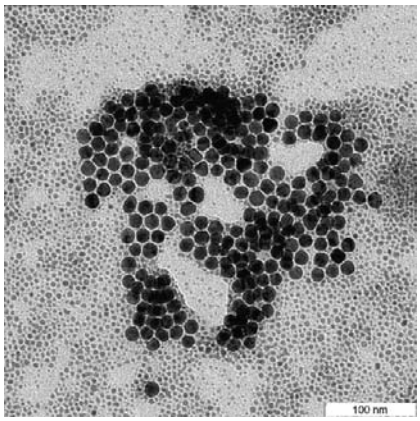

Figure S1. TEM image of a Ag/Au NP bilayer, obtained by sonicating them for 1 h after transferred from the water/toluene interface. The black large dots are 12 nm Au NPs while the grey small dots 6 nm Ag NPs. The sonication caused detachment of the Au NPs rather than Ag NPs, suggesting a bilayer character of the resulting films.

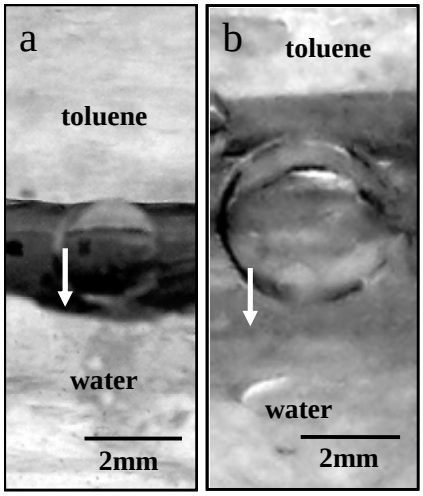

Figure S2. Photographs of water droplets of 20 μL and 200 μL in volume, standing on a Ag/Au NP bilayer (a) and a Ag/Au/CdTe NP trilayer (b), self-assembled at the water/toluene interface. The upper phase is toluene and the lower phase water. The interface is highlighted by arrows.