Supplementary Information



Figure S1. Tuning the PDMAEMA brush thickness by varying the polymerization time or the CuCl/CuCl₂ ratio. The data are measured at ambient conditions using ellipsometry.

Figure S2. TEM images of citrate-stabilized gold particles with (a) \sim 13 nm and (b) \sim 5 nm diameter.





Figure S4. Refractive indices determined by ellipsometry in dependence of relative humidity for a brush with a dry thickness of 43.02 nm.

