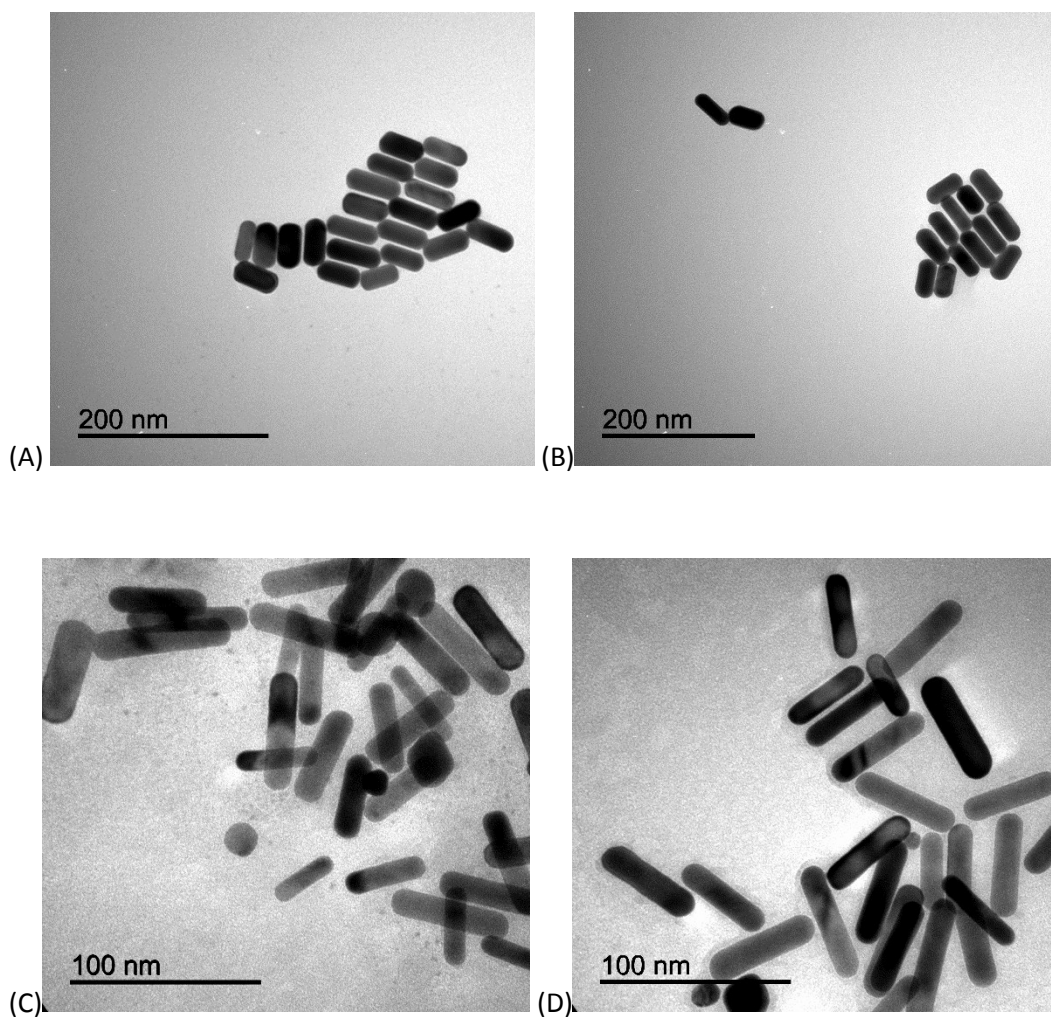


Effective replacement of cetyltrimethylammonium bromide (CTAB) by mercaptoalkanoic acids in the gold nanorods (AuNRs) surfaces in aqueous solutions

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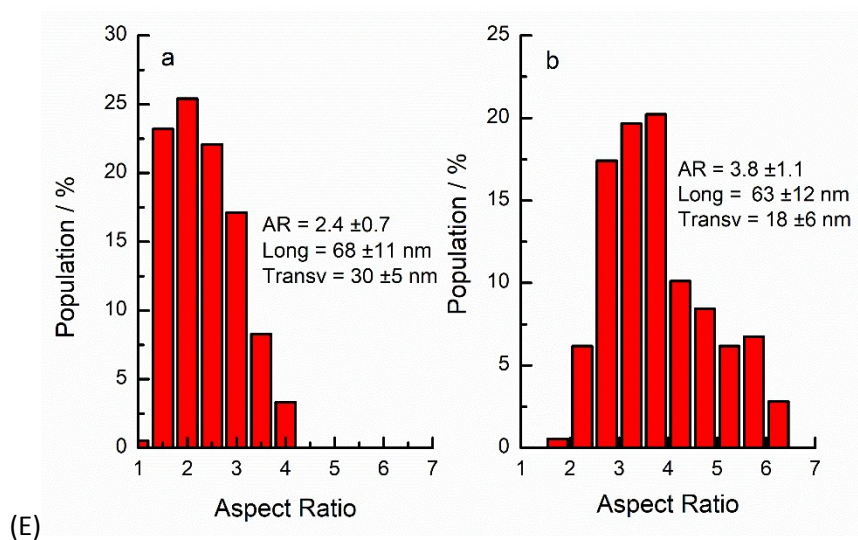


Figure S1. TEM micrographs of CTAB-AuNRs of two aspect ratios (A, B: synthesis 1, and C, D: synthesis 2). (E) Size distribution corresponding to synthesis 1 (a) and 2 (b).

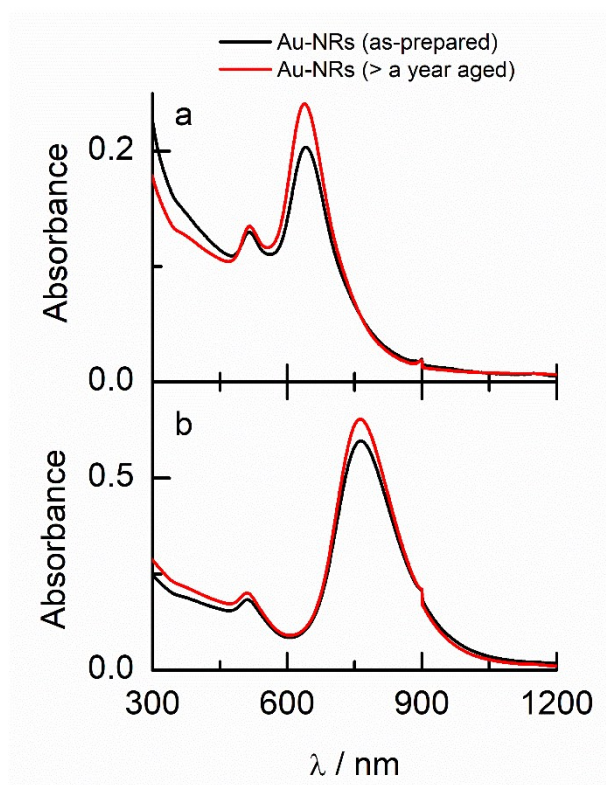


Figure S2. UV-visible spectra of (a) MUA-AuNRs and (b) MHDA-AuNRs taking at the time of ligand exchange procedure and after more than one-year modification.

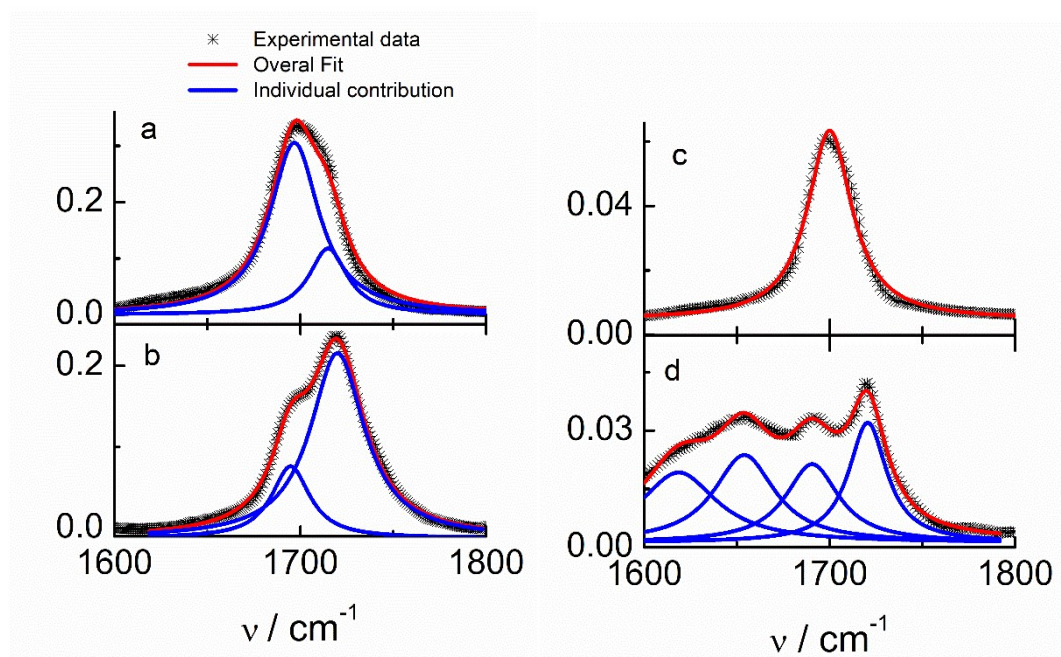


Figure S3. Deconvolution of FTIR spectra in the wavenumber region restricted to carbonyl groups signals. (a) MUA, (b) MUA-AuNRs, (c) MHDA, (d) MHDA-AuNRs.