Electronic supplementary information

Eicosyl ammoniums elicited thermal reduction alleyway towards gold nanoparticles and their chemo-sensor aptitude

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Fig. S1 UV-Vis absorption spectra of Au NPs synthesized without TTS.
Fig. S2 Histograms showing size distribution of Au NPs synthesized with 0.10 mM and 4 mM of different TTSs: (a), (b) (16-2-16), (c), (d) (18-2-18) and (e), (f) (20-2-20).
Fig. S3 FTIR spectra of pure TTSs ($m = 16, 18, 20$).
Fig. S4 Photographs of all three kinds of Au NPs with different concentrations of Hg$^{2+}$ range from 0 to 450 µM.
Fig. S5 Time dependent UV-Vis spectra of Au NPs synthesized with different TTSs in presence of Hg$^{2+}$: (a) (16-2-16) Au NPs, (b) (18-2-18) Au NPs and (c) (20-2-20) Au NPs.