

Comparative Study of the Adsorption of Thiol and Isocyanide Molecules on Silver Surface by In Situ Surface-Enhanced Raman Scattering

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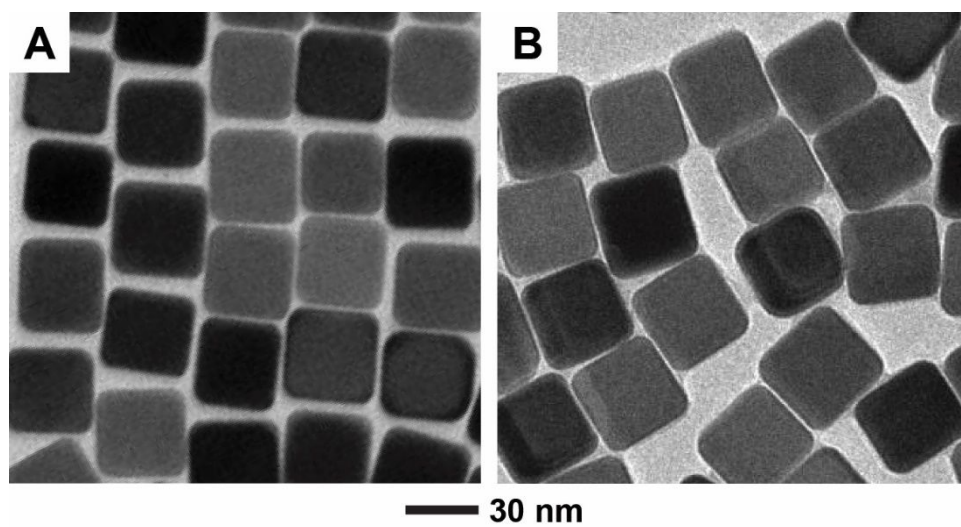


Figure S1. TEM images of (A) the as-synthesized Ag nanocubes and (B) the acid-treated Ag nanocubes.

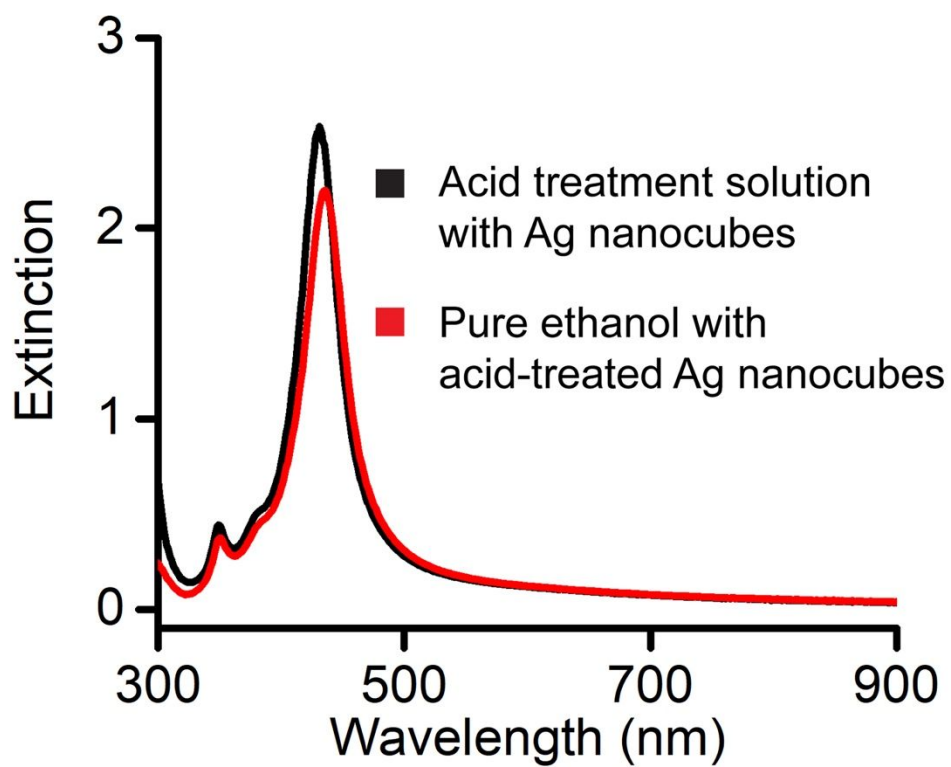


Figure S2. UV-vis spectra of Ag nanocubes dispersed in an acid treatment solution (black curve) and the acid-treated Ag nanocubes re-dispersed in pure ethanol (red curve).

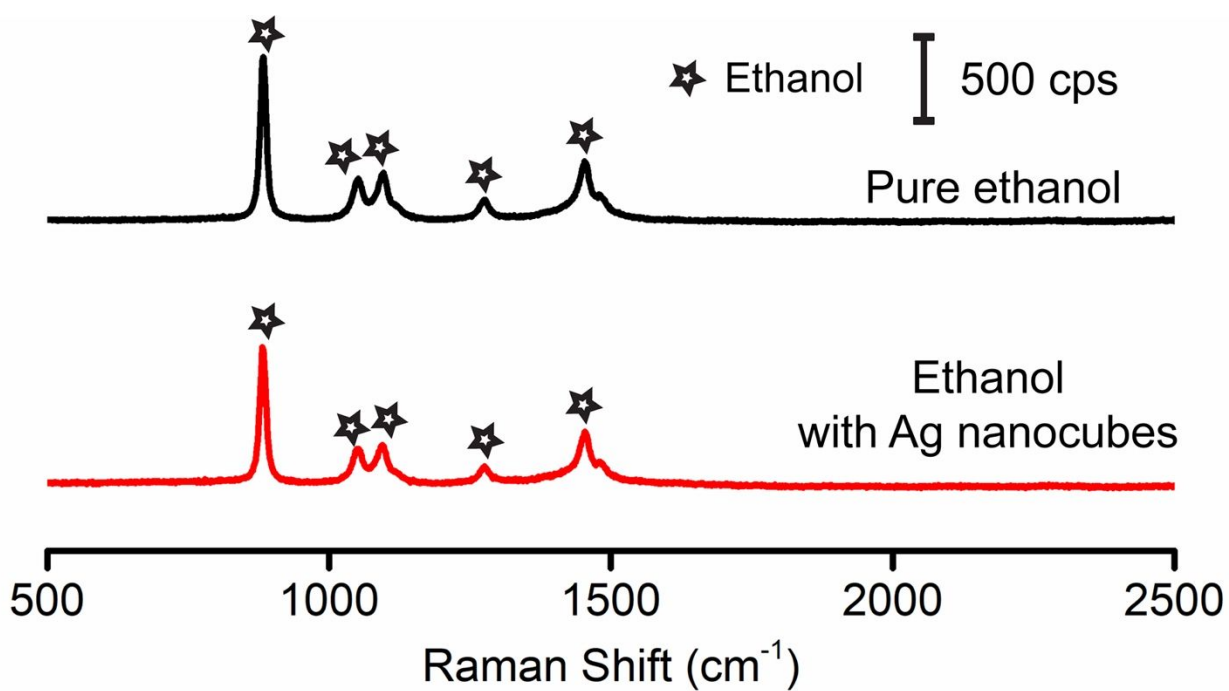


Figure S3. Raman spectra recorded from pure ethanol (black) and ethanol containing as-prepared Ag nanocubes (red).

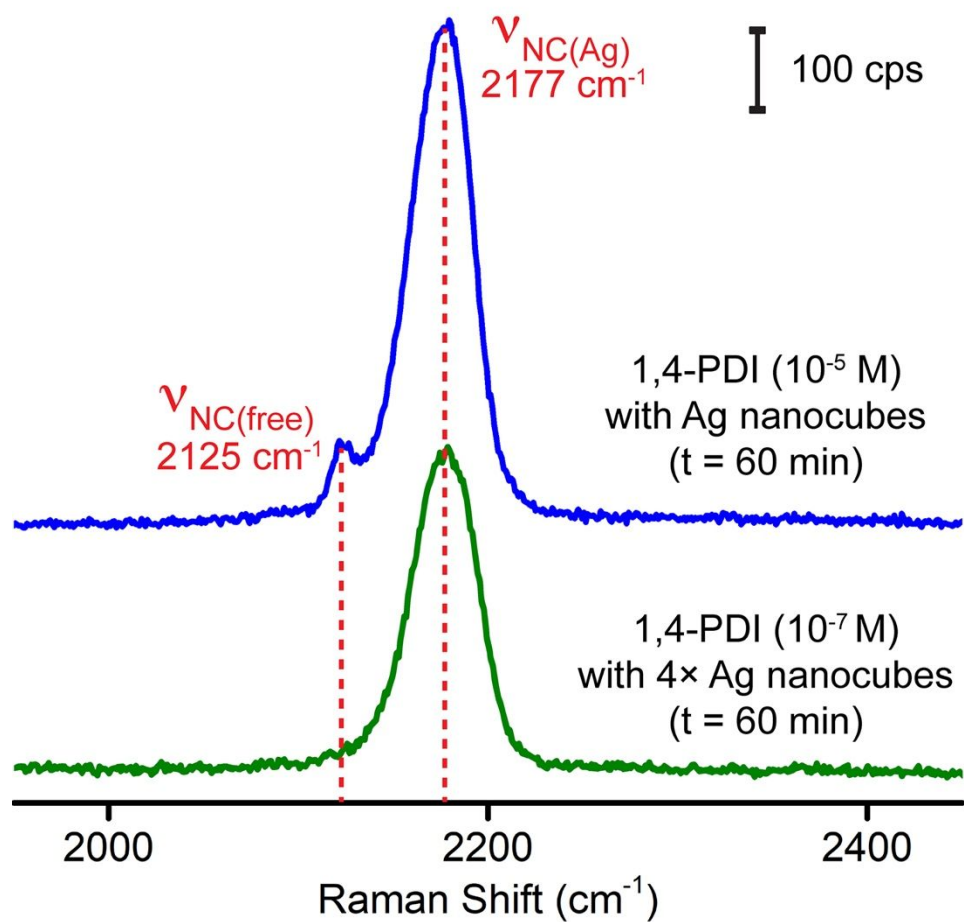


Figure S4. The SERS spectra of 1,4-PDI collected at $t=60$ min by using (A) Ag nanocubes prepared by 1,4-PDI ethanol solutions at 10⁻⁵ M and (B) Ag nanocubes prepared by 1,4-PDI ethanol solutions at 10⁻⁷ M with the number of particles quadrupled from those in (A).

Table S1. Raman data of the characteristic peak of Si as periodically measured throughout all the SERS experiments.

#	Centre	Width	Height
1	520.35	5.11	110652
2	520.38	4.97	110645
3	520.35	5.02	115457
4	520.26	5.02	108978
5	520.25	5.03	110601
6	520.20	5.30	108247
7	520.32	4.87	107954
8	520.39	5.24	112402
9	520.29	5.27	108795
10	520.10	5.09	112784
11	520.34	5.54	115776
12	520.44	5.07	117896
13	520.22	5.42	119255
14	520.10	5.09	112784
15	520.32	4.87	122134
16	520.32	5.48	117520
17	520.32	5.16	116003
18	520.31	5.42	113424
19	520.37	5.11	118993
20	520.19	5.61	106963
Mean	520.29	5.19	113363
Standard Deviation	0.09	0.22	4346