

Supporting Information

Quantification of surface composition and segregation on AuAg bimetallic nanoparticles by MALDI MS

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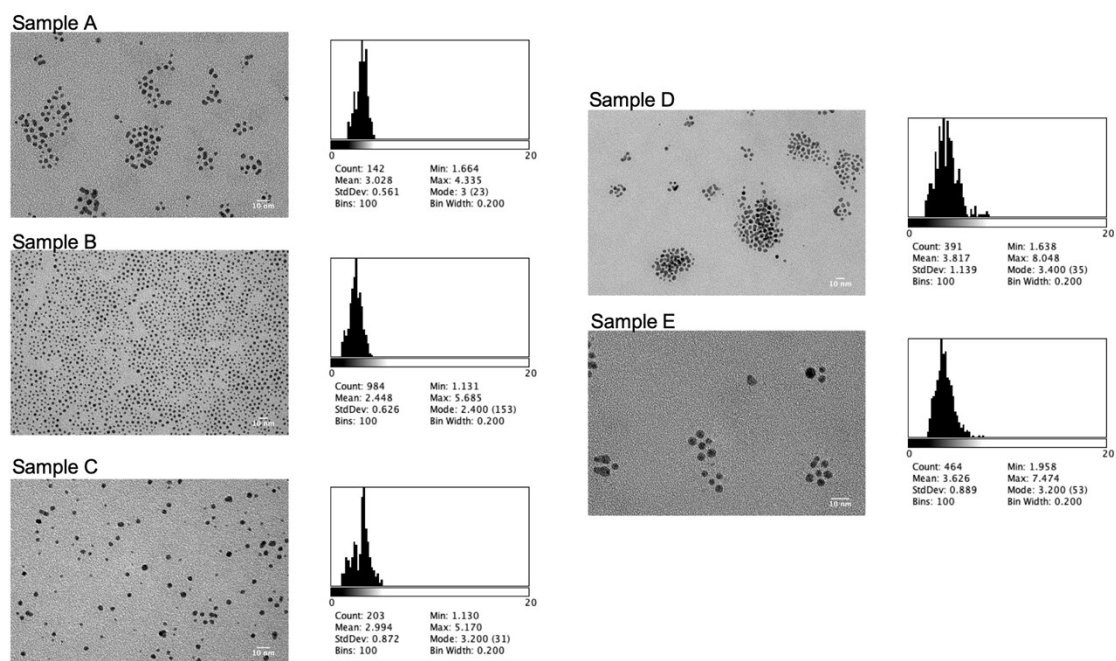


Figure S 1. Representative TEM images of AuAg NPs in this works.

Table S 1. Experimental m/z ratio and predicted monoisotopic peak positions for the MS spectrum in Figure1

	Au	Ag	DDT	monoisotopic peak position	detected peak position
n=4	0	4	3	1031.1235	1031.2685
	1	3	3	1121.1849	1121.3776
	2	2	3	1211.2464	1211.4740
	3	1	3	1301.3078	ND
	4	0	3	1391.3693	ND
n=5	0	5	4	1339.1963	1339.4214
	1	4	4	1429.2577	1429.5436
	2	3	4	1519.3192	1519.5972
	3	2	4	1609.3806	1609.7130
	4	1	4	1699.4421	1699.7510
	5	0	4	1789.5036	ND
n=6	0	6	5	1647.2691	1647.6477
	1	5	5	1737.3305	1737.6559
	2	4	5	1827.3920	1827.7324
	3	3	5	1917.4534	1917.8361
	4	2	5	2007.5149	2007.8647
	5	1	5	2097.5764	ND
	6	0	5	2187.6378	ND
n=7	0	7	6	1955.3419	ND
	1	6	6	2045.4033	2047.7718
	2	5	6	2135.4648	2135.8686
	3	4	6	2225.5262	2225.9309
	4	3	6	2315.5877	2315.3787
	5	2	6	2405.6491	ND
	6	1	6	2495.7106	ND
	7	0	6	2585.7721	ND

(ND: Not Detectable due to the its low abundance)

Table S 2. Integrated peak signals

			Signal integration				
	x in (Au _x Ag _{8-n-x})L _{n-1}	m/z	Sample A	Sample B	Sample C	Sample D	Sample E
n=5	0	1339	4747	5027	106721	190	1497
	1	1429	2550	1765	141570	709	3310
	2	1519	806	510	69782	1509	3700
	3	1609	254	184	13689	1450	1112
	4	1699	118	116	8161	459	212
	5	1790	91	113	8689	61	85
		Signal Sum	8566	7715	348612	4378	9916
		Calculated Au%	13.7	11.4	22.9	46.7	30.9
n=6	0	1647	5414	7163	81183	99	1206
	1	1737	3813	3561	153619	327	3100
	2	1827	1374	665	81664	673	3520
	3	1917	350	237	21186	814	1642
	4	2008	118	125	9667	618	496
	5	2098	81	100	7135	273	152
	6	2188	78	97	6958	31	84
		Signal Sum	11228	11948	361411	2835	10200
		Calculated Au%	13.3	10.0	22.9	47.8	29.9
n=7	0	1955	1459	2150	1611	24	303
	1	2045	1192	1363	3303	101	843
	2	2135	629	418	4652	208	1280
	3	2226	199	172	2676	305	711
	4	2316	69	116	671	193	272
	5	2406	53	61	223	99	77
	6	2496	44	66	145	49	61
	7	2586	44	63	110	17	40
		Signal Sum	3689	4409	13391	996	3587
		Calculated Au%	16.1	14.0	27.8	44.6	30.5