

SUPPORTING INFORMATION

Table S1. Peaks information of Au/Ag elements from XPS spectrum at different pH values.

pH	Name	Peak BE	FWHM ev	Area (P) CPS.ev	Atomic %	Ag/Ag
6.5	Ag3d _{3/2}	373.75	0.43	3208.08	28.7	2.46
	Ag3d _{5/2}	367.76	1.03	4747.56	42.41	
	Au4f _{5/2}	87.48	0.87	1374.45	12.34	
	Au4f _{7/2}	83.81	0.86	1843.73	16.55	
8.5	Ag3d _{3/2}	373.92	1.08	1292.31	30.37	2.34
	Ag3d _{5/2}	367.87	1.16	1694.59	39.73	
	Au4f _{5/2}	87.61	0.97	536.69	12.65	
	Au4f _{7/2}	83.92	0.98	732.72	17.26	
10.5	Ag3d _{3/2}	373.74	1.08	440.22	22.45	2.21
	Ag3d _{5/2}	367.84	0.87	911.10	46.39	
	Au4f _{5/2}	87.52	0.91	269.42	13.79	
	Au4f _{7/2}	83.95	0.98	339.63	17.37	