Supporting Information

Surface Modification of Colloidal Silica Nanoparticles: Controlling the size and Grafting Process

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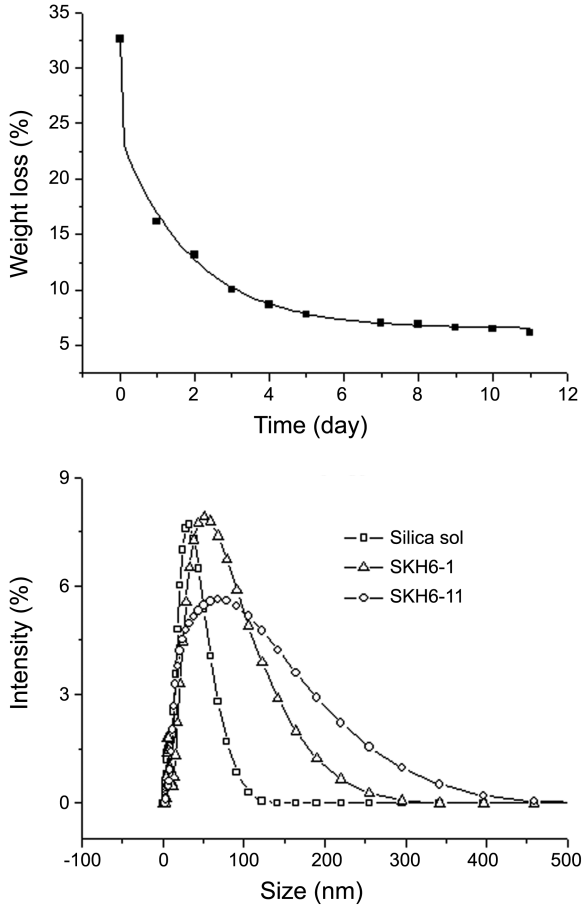

Figure S1. The weight loss and average size of modified silica sol SKH6 with different dialysis time.

Table S1. The weight loss and average size of modified silica sol SKH6 with different dialysis time

Samples[a]	Dialysis time (day)	Size (nm)	Weight loss (%)
SKH6	0	57.0	32.61
SKH6-1	1	48.1	16.14
SKH6-2	2	48.1	13.15
SKH6-3	3	42.3	10.04
SKH6-4	4	49.1	8.64
SKH6-5	5	50.0	7.78
SKH6-7	7	48.6	7.04
SKH6-8	8	41.1	6.89
SKH6-9	9	57.1	6.62
SKH6-10	10	42.4	6.48
SKH6-11	11	44.9	6.15

[a]For SKH6, the reaction was performed at 50 °C for 6 h with acidic silica sol as pristine sol.

Table S2. The weight loss and average size of modified silica sol SKH1 with different dialysis time

Samples	Dialysis time (day)	Size (nm)	Weight loss (%)
SKH10	0	51.5	39.89
SKH10-1	1	43.9	24.58
SKH10-2	2	51.8	20.74
SKH10-3	3	46.5	15.25
SKH10-4	4	45.0	13.24
SKH10-5	5	43.5	11.57
SKH10-7	7	41.8	9.07
SKH10-8	8	40.1	8.74
SKH10-9	9	39.4	8.17
SKH10-11	11	41.7	6.87
SKH10-13	13	46.7	6.32

[a]For SKH10, the reaction was performed at 50 °C for 6 h with acidic silica sol as pristine sol.