

Supporting Information

TITLE: One-pot synthesis of long twin gold nanorods in a gelled surfactant solution

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Table S1. Average length and yield of the gold nanorods grown with various amounts of NO_3 . Length and yield were obtained by measuring more than 100 nanorods in each SEM image (Figure 2).

Amount of NO_3 [μl]	Conc. of NO_3 [mM]	Length [nm]	Yield [%]
0	0	1003.2 ± 536.8	40.9
25	0.26	1420.0 ± 429.0	35.8
50	0.52	1673.6 ± 394.9	40.7
75	0.78	1755.2 ± 406.0	60.8
100	1.0	1682.0 ± 542.0	50.4

Table S2. Average length and yield of the gold nanorods grown with seeds made from various concentrations of NaBH_4 . Length and yield were obtained by measuring more than 100 nanorods in each SEM image (Figure 4).

Conc. of NaBH_4 [M]	Length [nm]	Yield [%]
0.002	1224.7 ± 618.7	53.4
0.01	1755.2 ± 406.0	60.8
0.05	2107.1 ± 657.7	46.3
0.1	1663.6 ± 587.8	49.3

Table S3. Average length and yield of the gold nanorods grown at 20 °C with various amounts of the same seed. Length and yield were obtained by measuring more than 100 nanorods in each SEM image (Figure 5).

Smount of seed [μl]	Length [nm]	Yield [%]
3.2	1385.4 ± 628.4	31.8
17	1755.2 ± 406.0	60.8
85	1304.6 ± 469.8	55.3

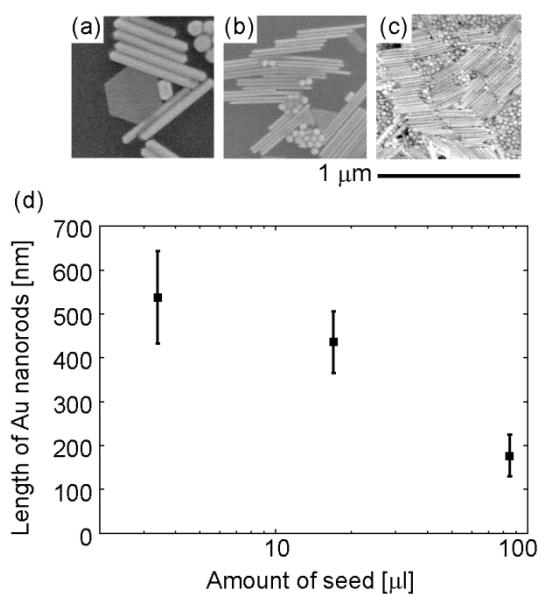


Figure S1. Gold nanorods grown with the different amounts of the same seeds at 40 °C. SEM images of the gold nanorods with (a) 3.2 μl , (b) 17 μl , (c) 85 μl of the same seeds. (d) Average length and standard deviation of resulting gold nanorods shown in (a)-(c).

Table S4. Average length and yield of the gold nanorods grown 40 °C with various amounts of the same seed at. Length and yield were obtained by measuring more than 100 nanorods in each SEM image (Figure S1).

Smount of seed [μl]	Length [nm]	Yield [%]
3.2	538.5 $\pm$ 105.1	31.0
17	435.3 $\pm$ 70.5	47.2
85	176.7 $\pm$ 47.8	34.5