High-yield Preparation of Vertically Aligned Gold Nanorod Arrays via Controlled Evaporation-induced Self-assembly Method

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Supporting information

Table of content

Fig. S1 The sketch of the experimental setup in the present study.

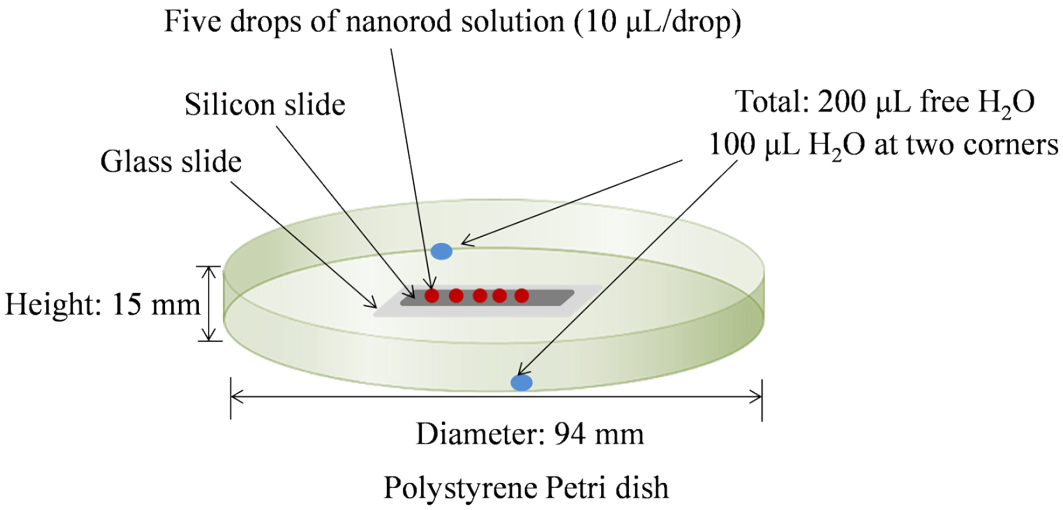

Fig. S2 Characterization of gold nanorod arrays: (a), (b), and (c) optical images of gold nanorod islands at different areas; (d), (e), and (f) SEM images of gold nanorod islands with different magnifications.

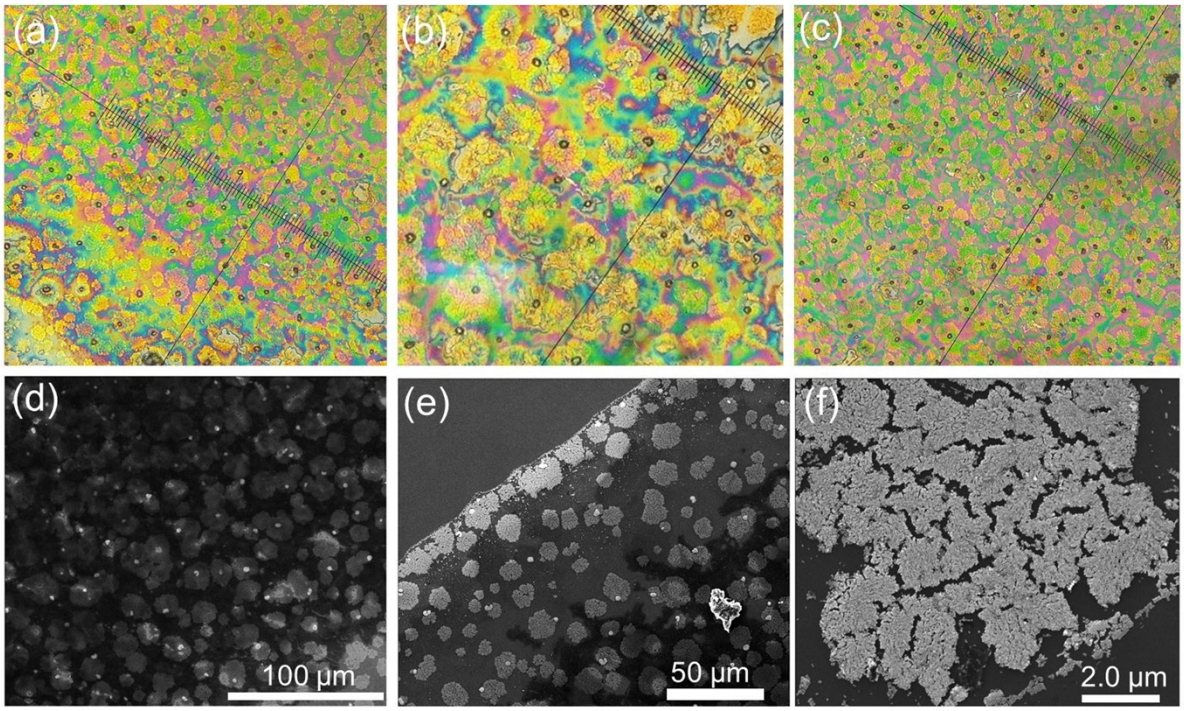

Fig. S3 Optical images of gold nanorod islands near center of the droplet

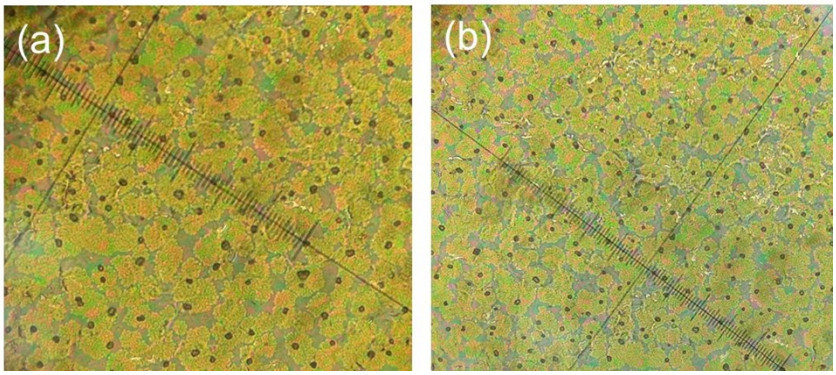

Fig. S4 Characterization of vertically aligned gold nanorods (aspect ratio of 3.4) assembled on the silicon surface: (a), (b), and (c) were assembled by the proposed two step method (first step: 24 h, second step: 36-48 h); (d), (e), and (f) were assembled by extending the incubation time to ~144 h in one step.