

Supporting Information

Assembling and Positioning Latex Nanoparticles via Controlled Evaporative Self-Assembly

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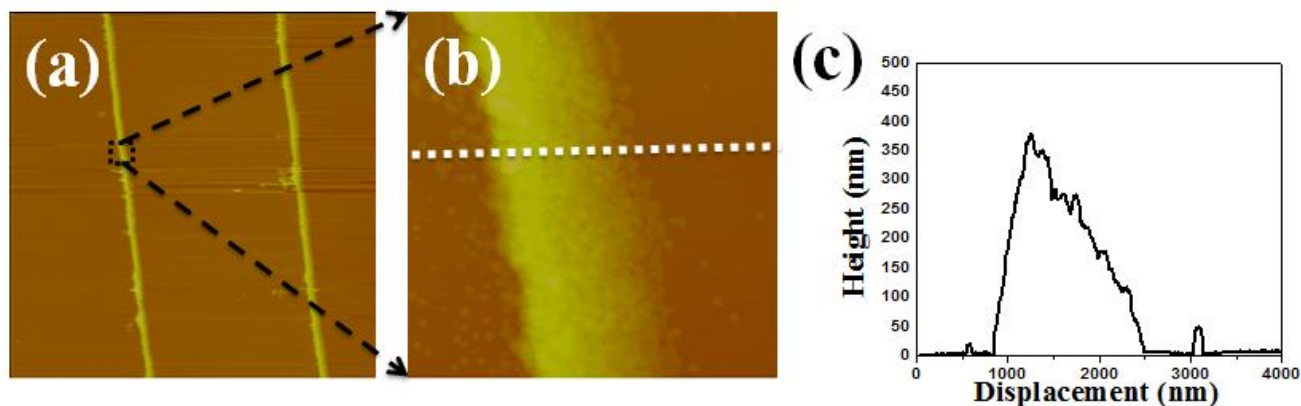


Figure S1. (a-b) AFM images of the stripes formed from the 50 nm nanoparticles. (c) Corresponding section analysis in (b). Image sizes: (a) $80 \times 80 \mu\text{m}^2$ and (b) $4 \times 4 \mu\text{m}^2$.

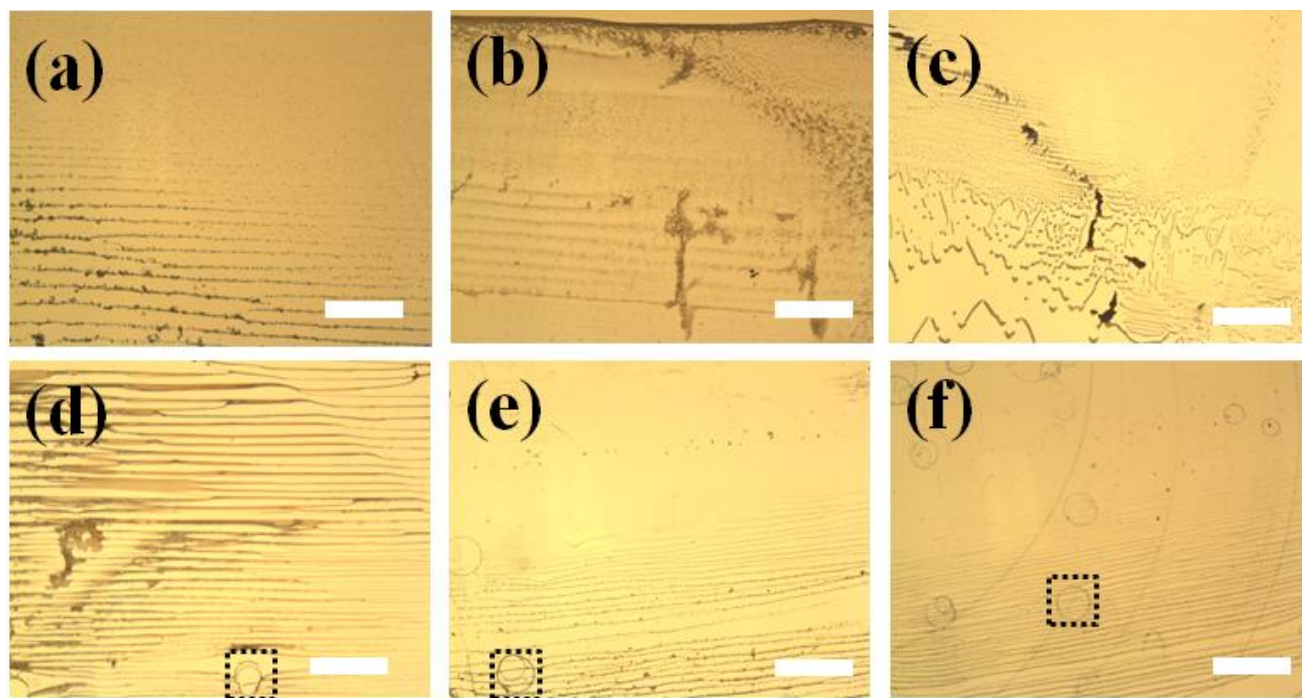


Figure S2. Optical micrographs of stripes composed of PS latex nanoparticles formed from controlled evaporative self-assembly at different temperatures. Upper panels: the aqueous solution containing (a) 50 nm particles, (b) 500 nm particles, and (c) mixed nanoparticles evaporated at 60°C, respectively. Lower panels: the aqueous solution containing (d) 50 nm particles, (e) 500 nm particles, and (f) mixed nanoparticles evaporated at 100°C, respectively. At lower temperature ($T = 60^{\circ}\text{C}$), less ordered patterns were observed. By contrast, at higher temperature ($T = 100^{\circ}\text{C}$), due to the formation of bubbles at the boiling temperature of water, some small circles were formed around the stripes, marked inside dashed boxes. Scale bar = 250 μm .