

Supporting Information for

Three-Dimensional Micropatterning of Semiconducting Polymers via Capillary Force-Assisted Evaporative Self-Assembly

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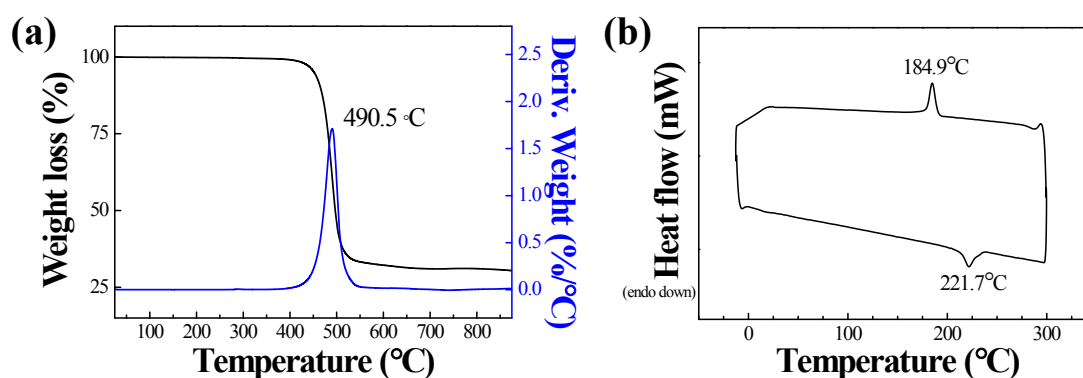


Figure S1. Thermal analysis of P3HT. (a) thermogravimetric analysis (TGA) of P3HT, (b) differential scanning calorimetry (DSC) analysis of P3HT

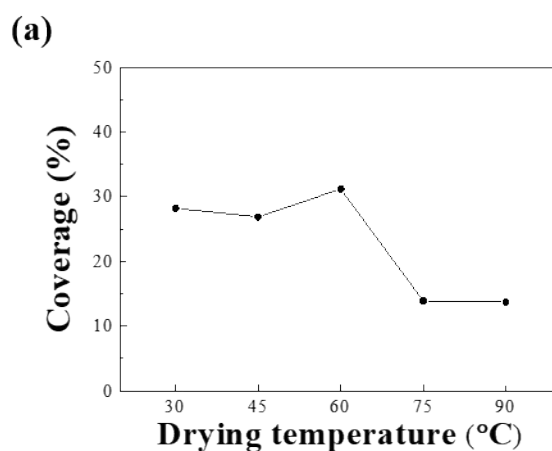


Figure S2. Surface coverage of Self-assembled P3HT micropatterns at different temperatures by image analysis.

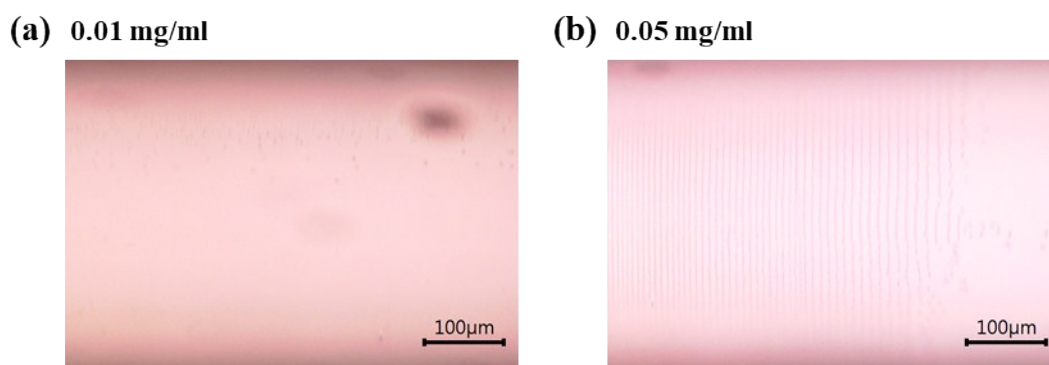


Figure S3. Self-assembled P3HT micropatterns from low P3HT concentrations. (a) 0.01 mg/ml, (b) 0.05 mg/ml

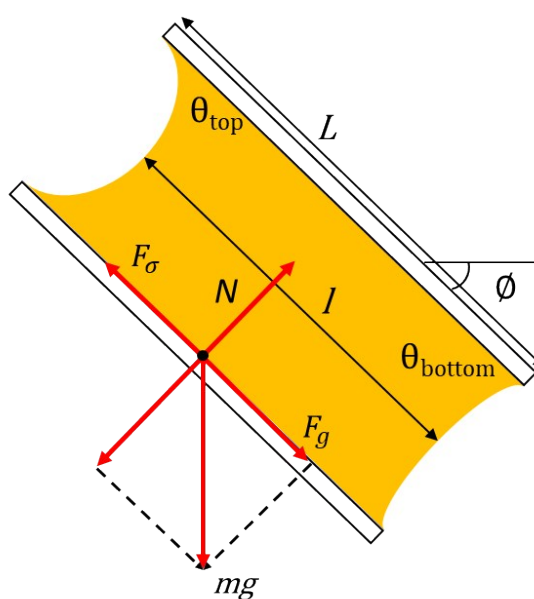


Figure S4. The scheme of the forces indicates acting inside the tilted capillary. (F_σ : Adhesive force, F_g : force due to gravitational force, N : normal force, ϕ : tilt angle, θ : contact angle, l : length of solution in capillary tube, L : length of capillary tube)

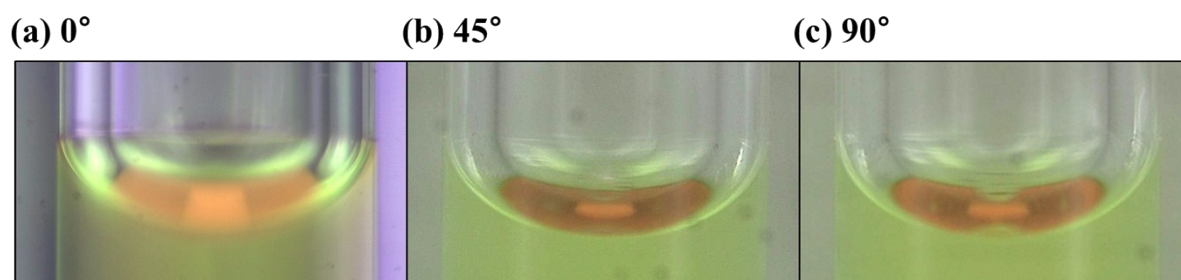


Figure S5. Contact angle of the P3HT solution in the capillary tubes. (a) 0° tilted capillary tube, (b) 45° tilted capillary tube, (c) 90° tilted capillary tube)

Supplementary videos

Supplementary video 1. In-situ monitoring of 3D ring-like P3HT micropatterns formation by optical microscopy

Supplementary video 2. Stick and slip steps of evaporative self-assembly of P3HT by high-speed camera