

Electronic Supplementary Information

Robust superhydrophilic patterning of superhydrophobic ORMOSIL surfaces for high-throughput on-chip screening applications

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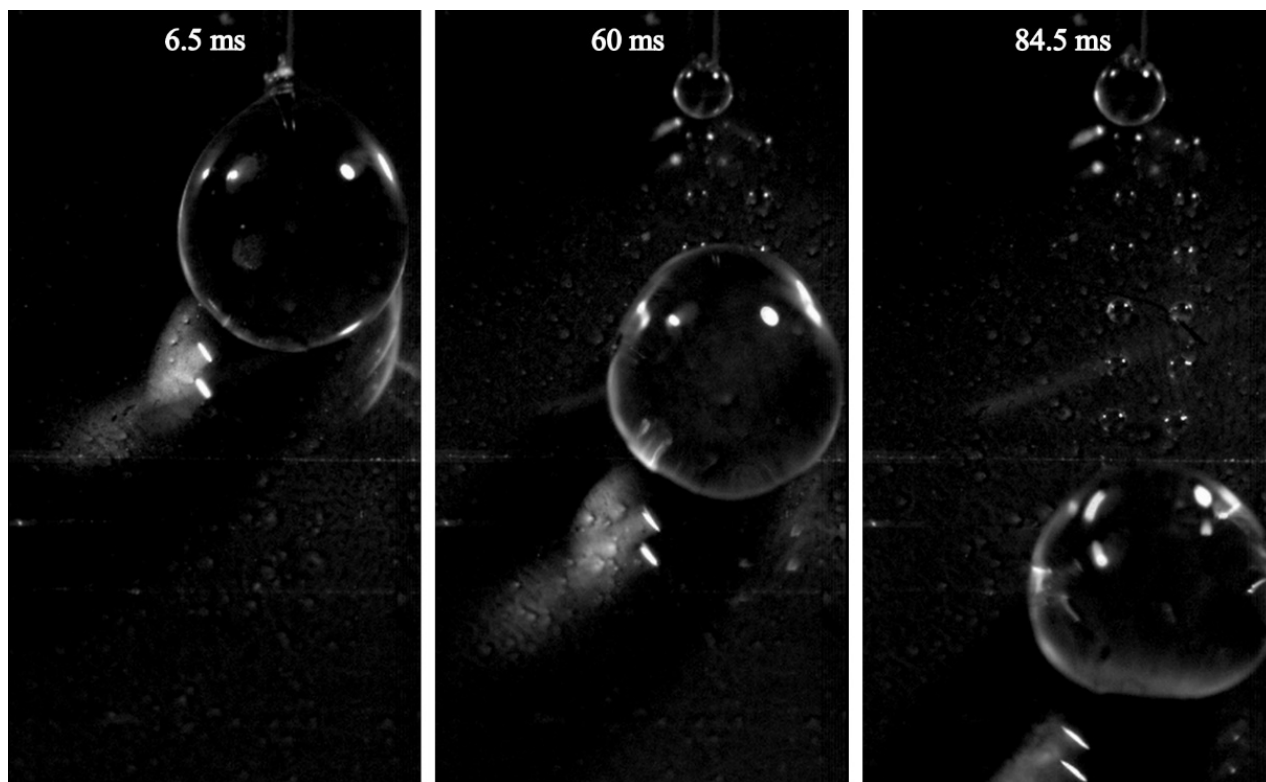


Fig. S1 Snapshots from high-speed recording (see Video SV1) at 6.5th, 60th, and 84.5th milliseconds (ms) for the surface with 200 μm circular patterns.

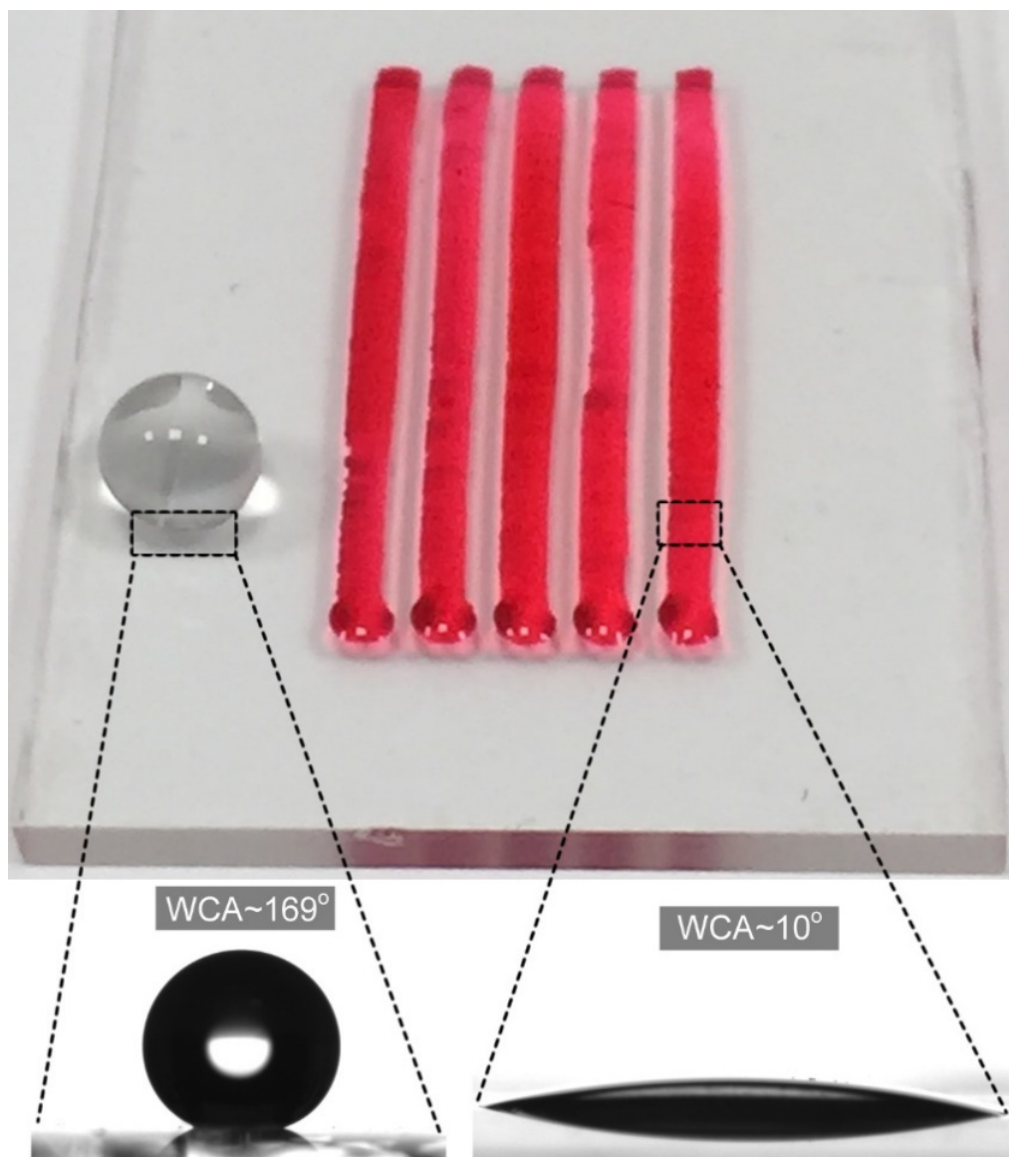


Fig. S2 Patterned ormosil surface after 5 month-storage period. Spherical droplet on the superhydrophobic region and rhodamine 6G aqueous solution on the superhydrophilic stripe patterns with corresponding WCA values.

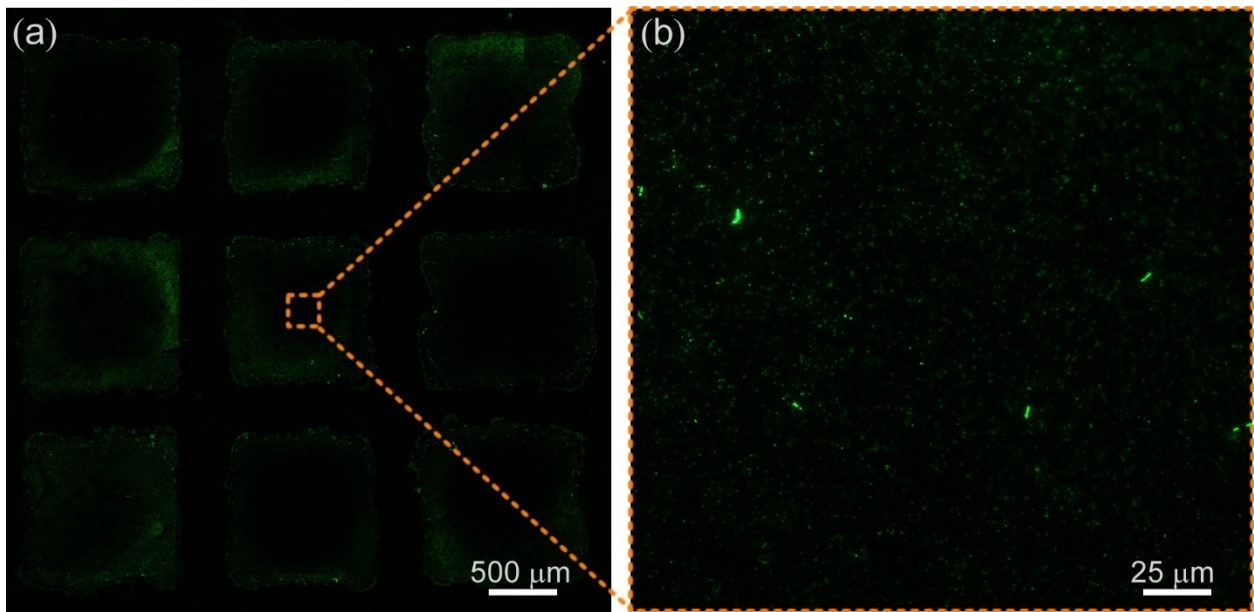


Fig. S3 (a) Fluorescent microscope image of GFP-expressing *E. coli* cells on the superhydrophilic patterns of ORMOSIL with square wetted patterns (1x1 mm) (b) Close-up view of one wetted pattern with adhered bacteria. Fluorescent signal of GFP from individual bacteria cells with $\sim 2 \mu\text{m}$ dimensions were clearly observed.