



Supplementary Material

The Transitional Wettability on Bamboo-Leaf-Like Hierarchical-Structured Si Surface Fabricated by Microgrinding

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Table S1. Particle size conversion chart.

| Grinding wheel type | Particle size (μm) |
|---------------------|---------------------------------|
| SD60 | 250 |
| SD120 | 124 |
| SD320 | 44 |
| SD600 | 21 |
| SD1200 | 12 |
| SD2000 | 6.5 |
| SD3000 | 5 |

Movie S1: A water droplet is split up equally by two pieces of BLHS surface.

Movie S2: The water droplet on the modified BLHS surface is totally taken away by a BLHS surface.

Movie S3: The droplet is running with the needle without volume loss.

Movie S4: The droplet on the modified BLHS surface completely self-sucks into a hollow tubing rapidly without the help of external forces.

Movie S5: The water droplet rests on the BLHS surface without self-sucking phenomenon.

Movie S6: Comparison of droplet manipulation on the BLHS surface and modified BLHS surface.