

Supplementary Information

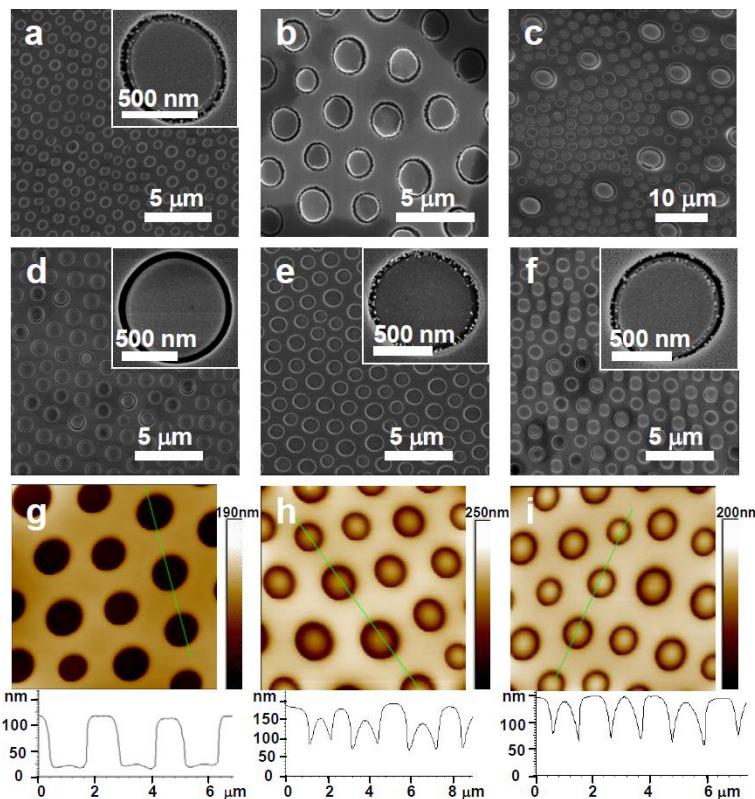


Fig. S1 SEM (a-f) and ($8 \times 8 \mu\text{m}^2$) AFM (g-i) images of the as-prepared hierarchical honeycomb patterns from different experimental conditions: 1) the effect of Rw : 1:16 (a); 1:4 (b); 1:1 (c); 2) the effect of RH : 20 % (d, g); 3) the effect of ambient temperature: 8 °C (e, h); 24 °C (f, i), respectively. The insets in (a) and (d-e) show the corresponding higher magnification. The corresponding AFM cross-section height profile is shown in (g-f), respectively.

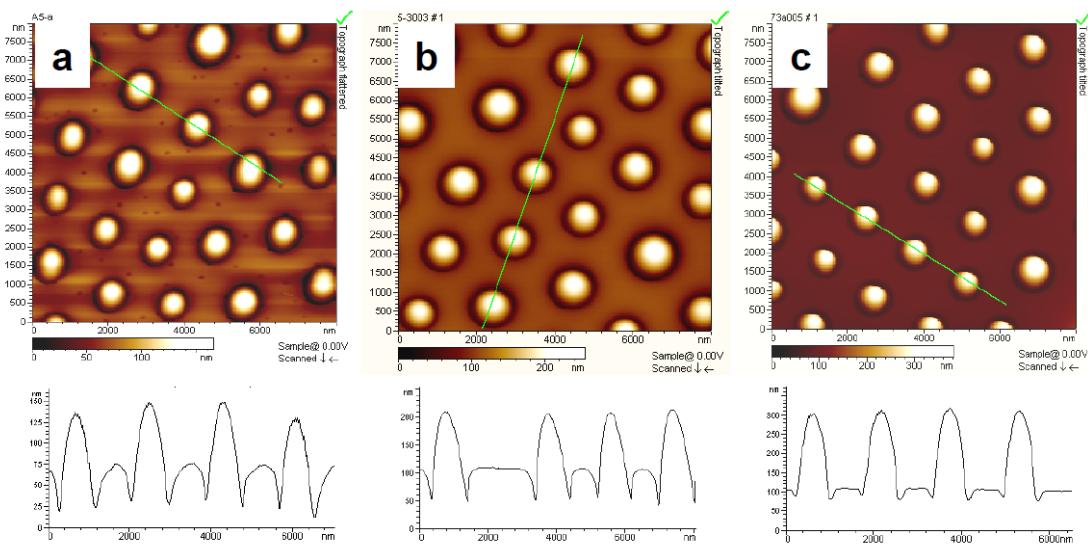


Fig. S2 ($8 \times 8 \mu\text{m}^2$) AFM height images (top) and their cross-section height profiles (bottom) of the as-prepared hierarchical honeycomb patterns after heating for 3 h at: 90 °C (a); 120 °C (b); 150 °C (c), respectively.

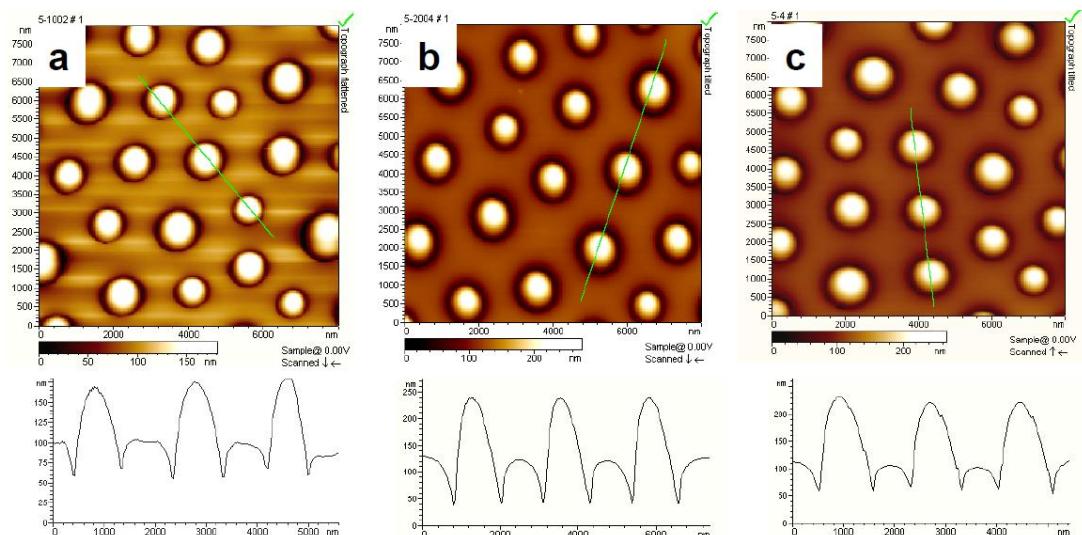


Fig. S3 ($8 \times 8 \mu\text{m}^2$) AFM height images (top) and their cross-section height profiles (bottom) of the as-prepared hierarchical honeycomb patterns after heating at 120 °C for: 0.5 h (a); 1 h (b); 6 h (c), respectively.

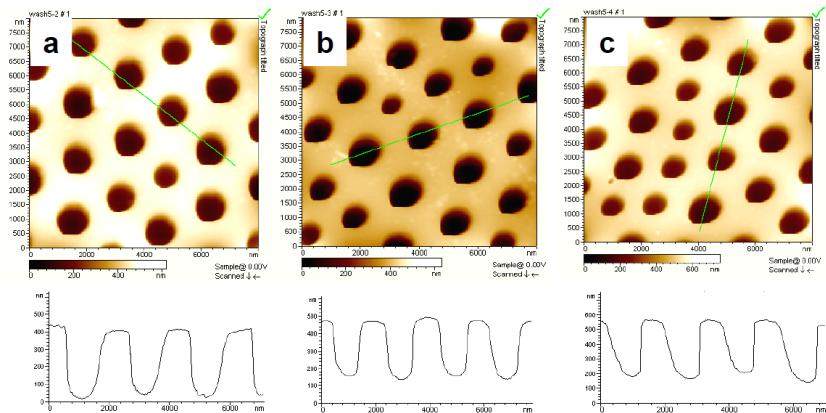


Fig. S4 ($8 \times 8 \mu\text{m}^2$) AFM height images (top) and their cross-section height profiles (bottom) of the as-prepared hierarchical honeycomb patterns after heating at 120 °C for different times followed with water washing: 1 h (a); 3 h (b); 6 h (c), respectively.

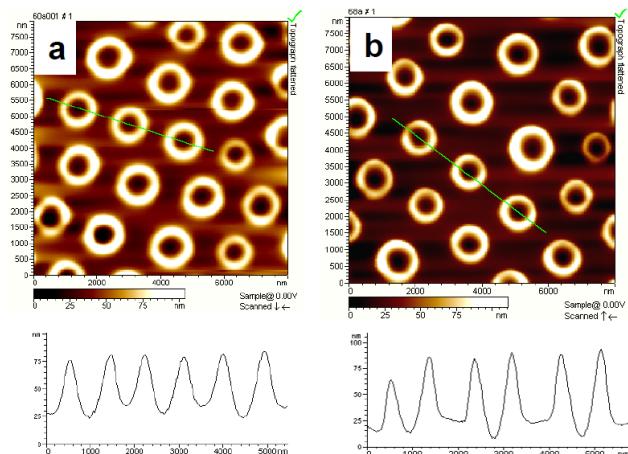


Fig. S5 ($8 \times 8 \mu\text{m}^2$) AFM height images (top) and their cross-section height profiles (bottom) of the as-prepared PDMS replicas templated by the hierarchical honeycomb patterns after curing for 6 h at: 60 °C (a); 90 °C (b), respectively.