

Description of Additional Supplementary Files

Supplementary Movie 1 Microdroplet-guided rolling of square-patterned nanomembrane.

Supplementary Movie 2 Microdroplet-guided rolling of semicircle-patterned nanomembrane.

Supplementary Movie 3 Microdroplet-guided rolling of sector-patterned nanomembrane.

Supplementary Movie 4 Precise control in rolling direction of parallelogram-patterned nanomembrane.