Electronic Supplementary Information

Patterning of hydrophobic three-dimensional carbon nanotube architectures by a pattern transfer approach

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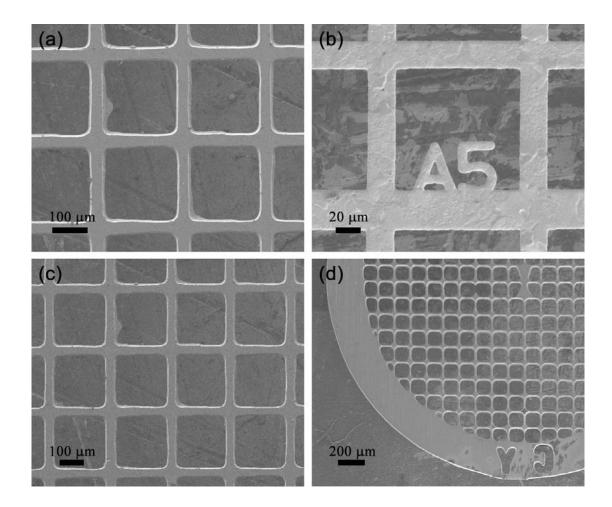


Fig. S1 The SEM images of micro grid masks corresponded to the obtained CNT architectures in Fig. 1a, 1b and Fig. 3a, 3b.

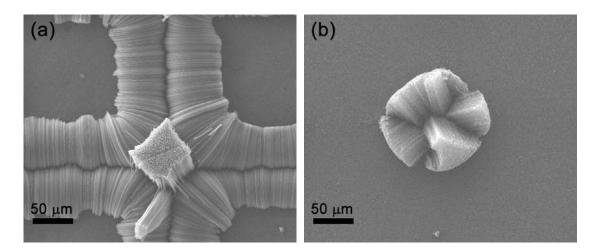


Fig. S2 (a) The enlarged image of Fig. 1a and (b) the enlarged image of Fig. 3a, showing the detailed morphology of the multi-directional growth of CNT arrays.

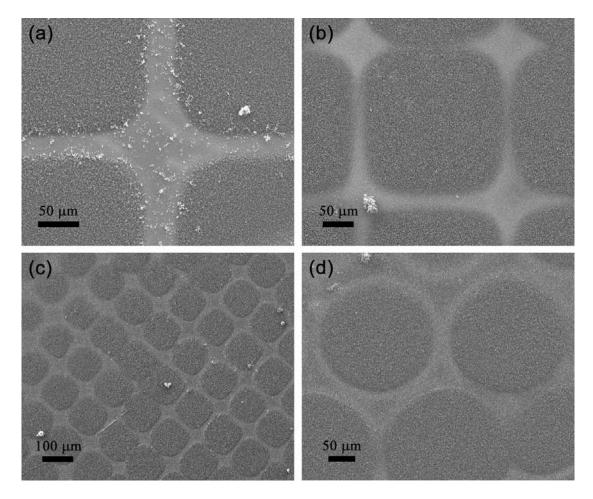


Fig. S3 The results of the CNT growth under different masks: (a) Cu grid; (b) Fe grid;(c) W grid; (d) Ni grid. The growth of CNTs in the covered area was limited.

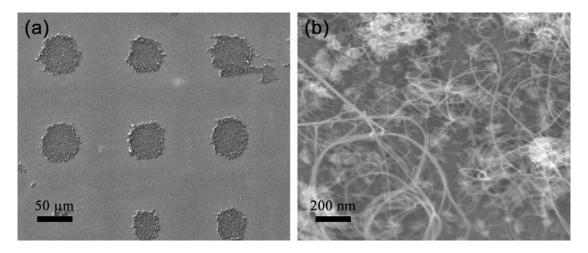


Fig. S4 (a) the SEM image of the silicon substrate after the removal of CNT architectures in Fig. 2d. The black dots in the image referred to the uncovered area; (b) the enlarged SEM image of the uncovered area, showing the formation of a sparse CNT film.