

The growth of MWCNTs on a contact-printing patterned nano-dot array

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Microcontact printing is versatile and inexpensive technique for the preparation of micro- to nanoscale structure. It has been reported from patterning self-assembled monolayers(SAMs) to printing colloidal particles, biomolecules, and polymers. We fabricated well-patterned nanoscale stamp in simple way without complicated processes such as EB-lithography via using vertically standing CNTs array. The CNTs have ca. 60 nm in diameter and ca. 100 nm in space between carbon nanostructures, which was reversely transferred and printed on the surface of Si substrate using contact-printing. The CNTs are grown on the transferred nanodot array acting as catalyst via thermal CVD.