NE-004

PROGRAM

One Step Fabrication of Organic Nanowires by using Direct Printing Method

Jae. K. Hwang, Myung. M. Sung

Department of Chemistry, Hanyang University

A wide range of techniques for the direct-printing of functional materials have been developed for the fabrication of micro- and nanoscale structures and devices. Here we report a new direct patterning method, liquid bridge-mediated nanotransfer molding (LB-nTM), for the formation of twoor three-dimensional structures with feature sized as small as tens of nanometers over large areas up to 4". LB-nTM is based on the direct transfer of various materials from a mold to a substrate via a liquid bridge between them. The LB-nTM method was applied to the preparation of organic nanowire FETs on flexible substrates.

Keywords: Direct printing, Nanowire, Transistor