

Nanomachining by Directional Photofluidization of Azopolymers

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Herein, we demonstrate photo-induced mass transfer of azopolymer and their application in the fabrication of nanostructures. By means of photo-induced mass transfer of azopolymer, various nanostructures including nanodome arrays and complex nanogratings are generated, successfully. In addition, we developed a metallic nanowire arrays with controlled-width by using photo-reconfigured polymer arrays as template. This current work is expected to contribute to making an important advance in the development of advanced nanofabrications.