Microcontact Printing on Gold Nanoparticles with Scanning Probe Assisted Lithographic Methods

DORJDEREM NYAMJAV, CARRIE SIU, University of the Sciences in Philadelphia — We utilize Scanning Probe Assisted Lithographic methods with microcontact printing to fabricate directed assembly of gold nanoparticles. Assembly was achieved either directly or via pre-fabricated templates. The templates were fabricated with weak polyelectrolytes using the mentioned methods. Subsequently, these charged features were utilized in pre-programmed assembly of the nanoparticles. This fabrication strategy can be useful in the construction of novel structures and materials.

Carrie Siu
University of the Sciences in Philadelphia

Date submitted: 07 Jan 2013

Electronic form version 1.4