

Abstract Submitted  
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**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.

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