

Supporting Information

Fabrication of Nanopatterned Poly(ethylene glycol) Brushes by Molecular Transfer Printing from Poly(styrene-block- methyl methacrylate) Films to Generate Arrays of Au Nanoparticles

M. Serdar Onses^{†,}*

[†]Department of Materials Science and Engineering, Nanotechnology Research Center (ERNAM) Erciyes University, Kayseri, 38039, Turkey

* *onses@erciyes.edu.tr*

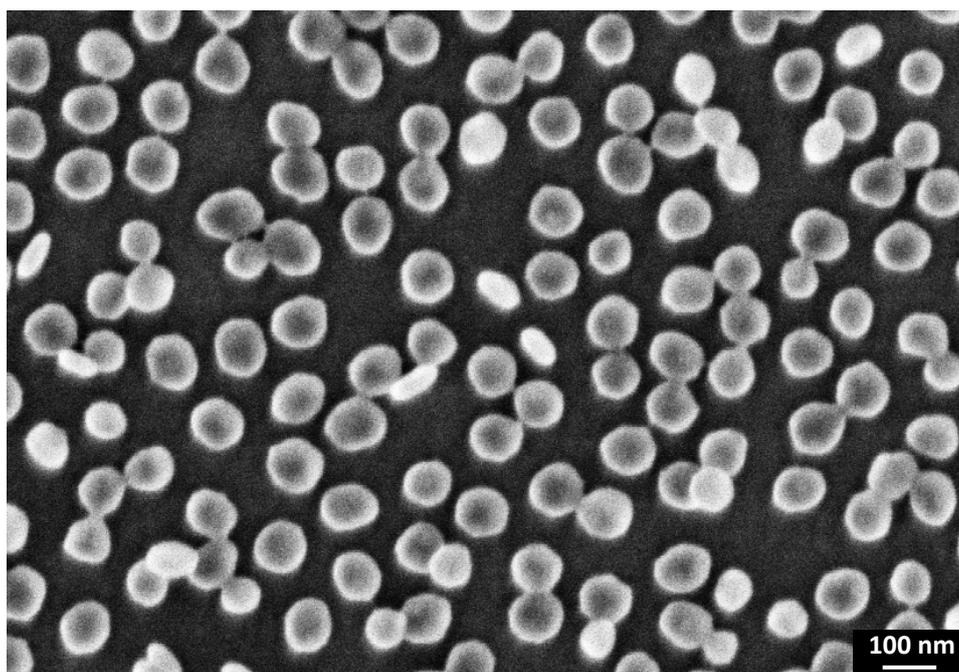
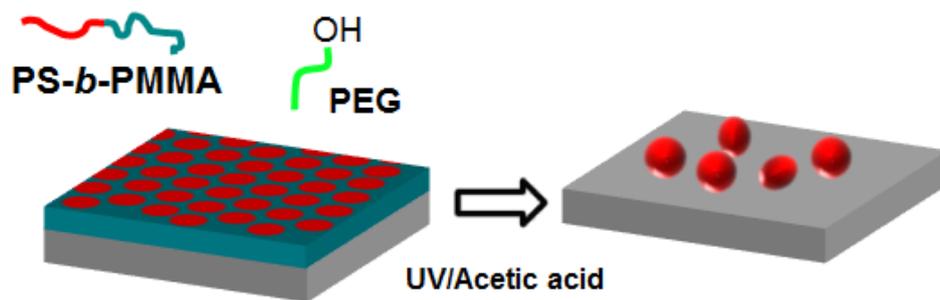


Figure S.1 Selective removal of the PMMA block. Schematic description of the removal of PMMA block is shown at the top. SEM image of the PEG-OH containing solvent annealed PS-*b*-PMMA films following UV treatment and acetic acid development. Order is lost due to lifting of the PMMA block.

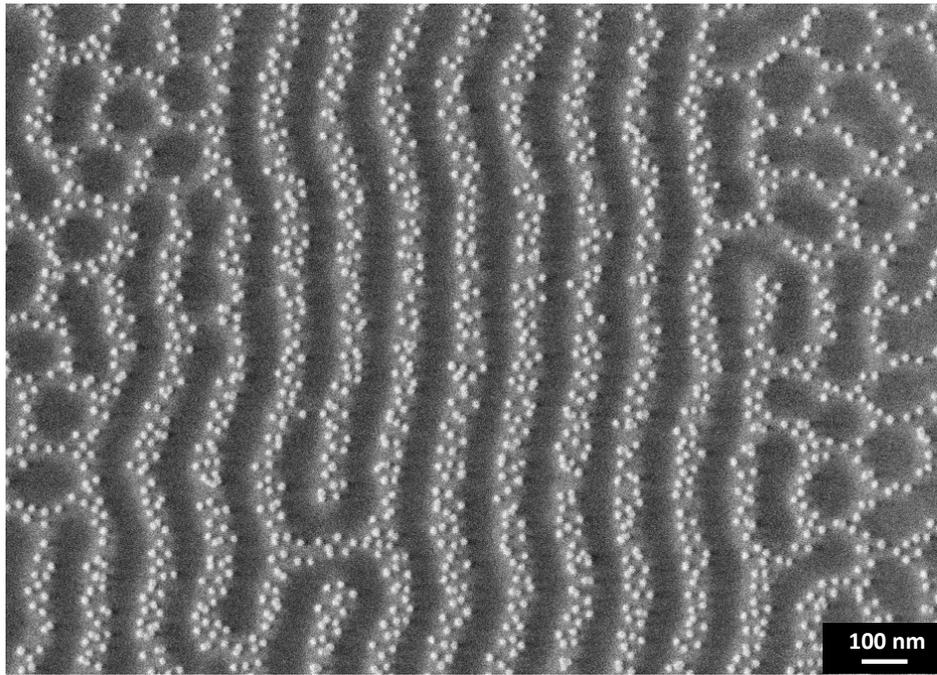


Figure S.2 Effect of the pattern geometry on the organization of Au NPs. SEM image of the immobilized Au NPs at the boundaries of honeycomb and lamellar morphologies.

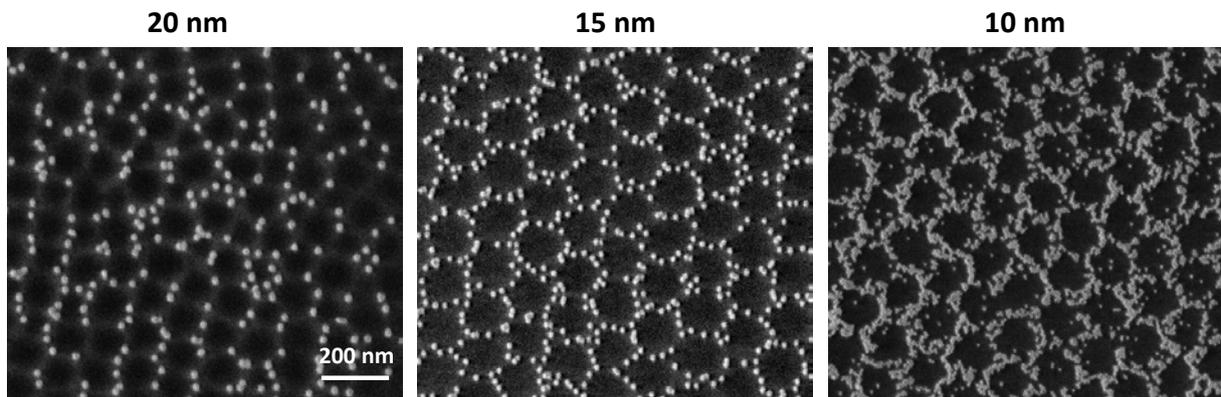


Figure S.3 Immobilization of Au NPs with different sizes. SEM images of the nanopatterned PEG brushes printed from the PS-*b*-PMMA films following the immobilization of Au NPs. The diameter of Au NPs for each image is given on the top.

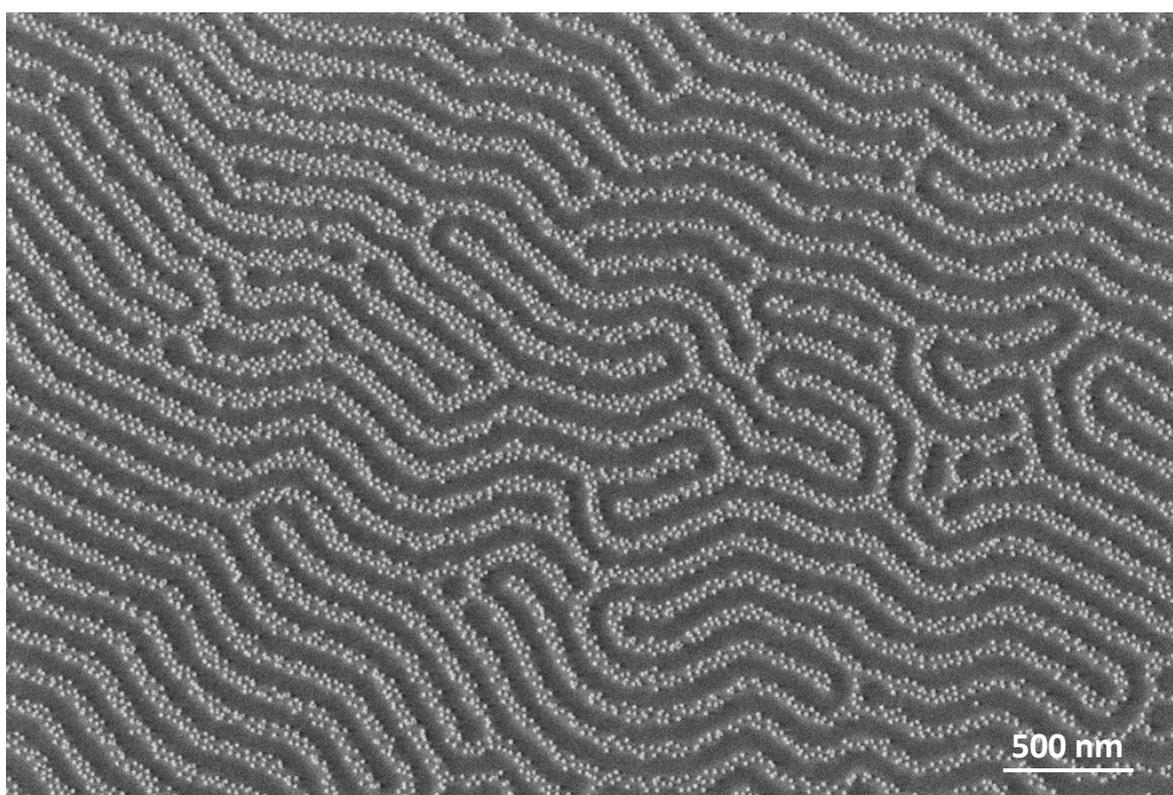
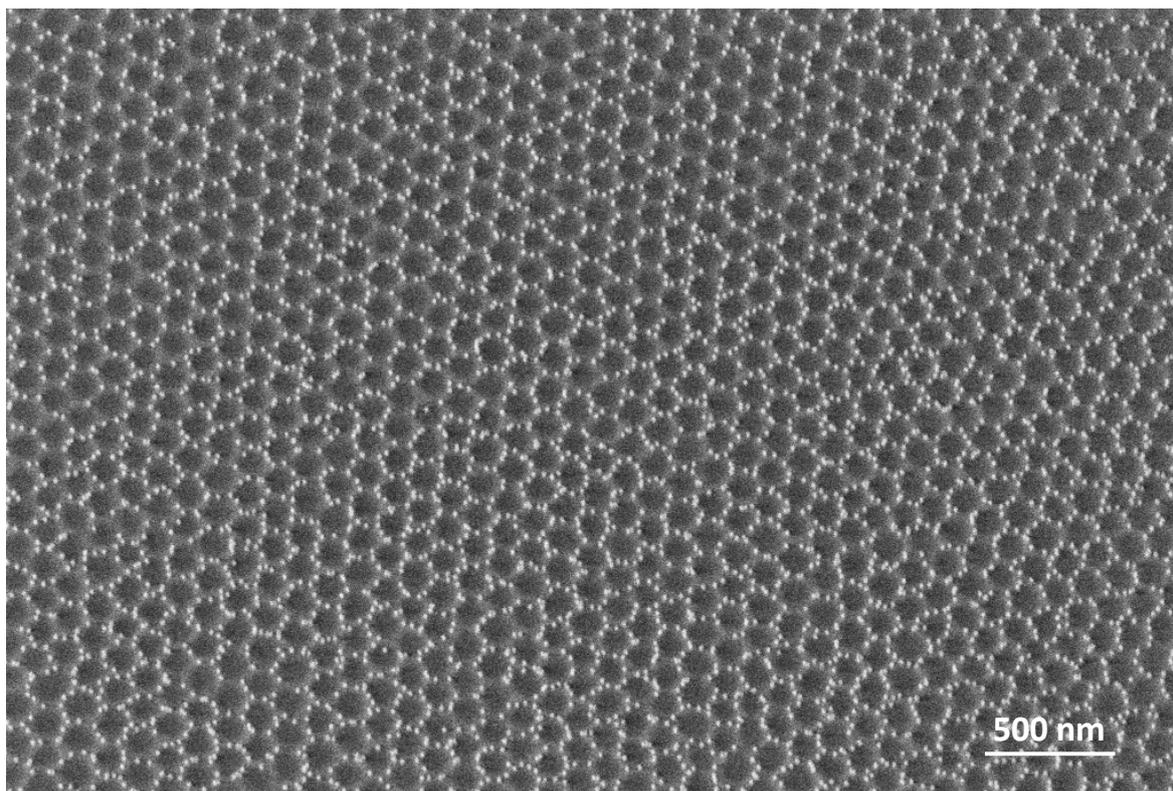


Figure S.4 SEM images of Au NP arrays on nanopatterned PEG brushes printed from self-assembled domains of PS-*b*-PMMA films

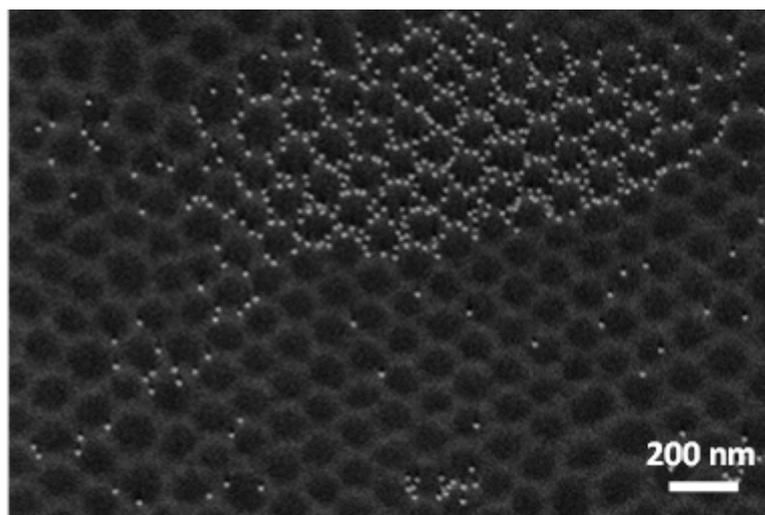


Figure S.5 SEM image showing the variation in density of bound Au NPs across the transfer area.