Electronic Supplementary Information for:

Synthesis of Gold Nanoring Arrays by Block Copolymer Templates

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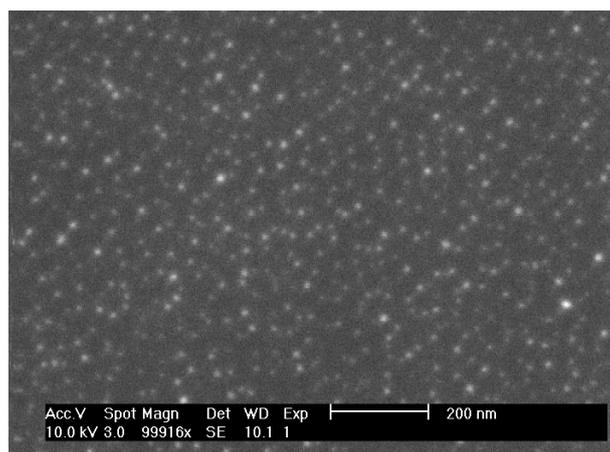[b]*Ecole Polytechnique Fédérale de Lausanne, Laboratoire d'Optique Appliqué, CH-1015 Lausanne, Switzerland*

Fig. S1 SEM image of gold nanostructures prepared by immersion of reverse PS-*b*-P2VP micelles (102-97 kg/mol, 0.5 wt% in o-xylene) successively in 0.9 wt% HCl (aq.) and in 1 mM HAuCl$_4$ (aq.), followed by oxygen plasma treatment.
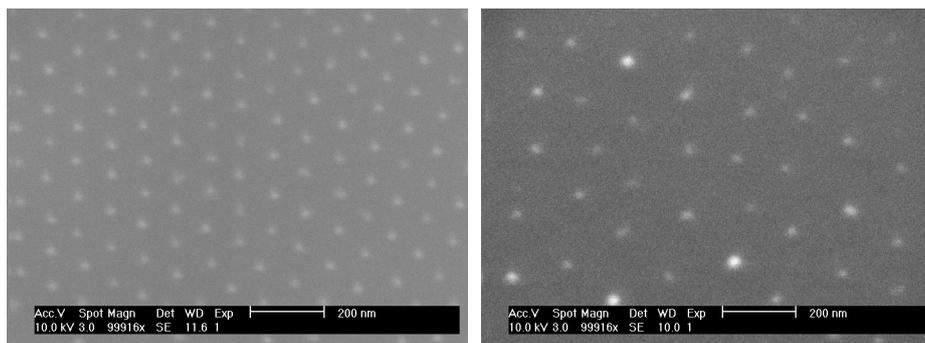
Fig. S2 SEM images of (left) gold and (right) silver nanoparticles produced by immersion of reverse PS-*b*-P2VP micelles in 1 mM aqueous solution of HAuCl$_4$ and AgNO$_3$ for 1 min, respectively, followed by oxygen plasma exposure. Here, gold and silver nanoparticles were obtained from PS-*b*-P2VP having molecular weight of 102-97 kg/mol and 190-190 kg/mol, respectively. Similar results were obtained when using methanol as a solvent.
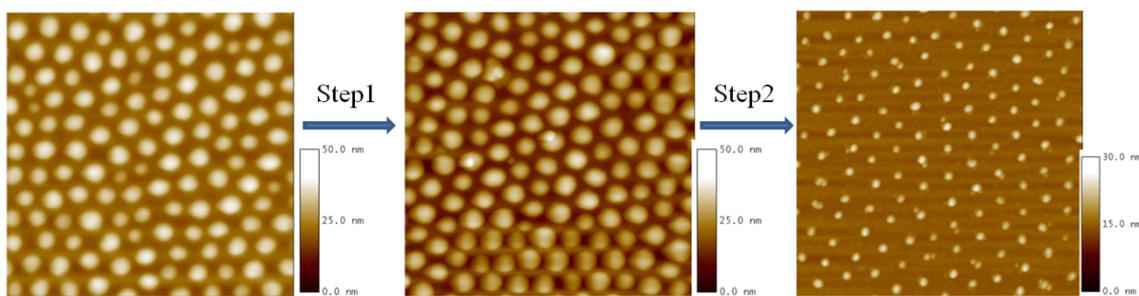
Fig. S3 AFM topography images (1x1 μm^2 scan) of (left) reverse PS-*b*-P2VP (102-97 kg/mol, 0.5 wt% in o-xylene) micelles spin-coated at 4000 rpm on silicon substrate, (center) loaded micelles after immersion in 1 mM $HAuCl_4$ (aq.) for 10 min, and (right) gold nanoparticle array after oxygen plasma treatment.
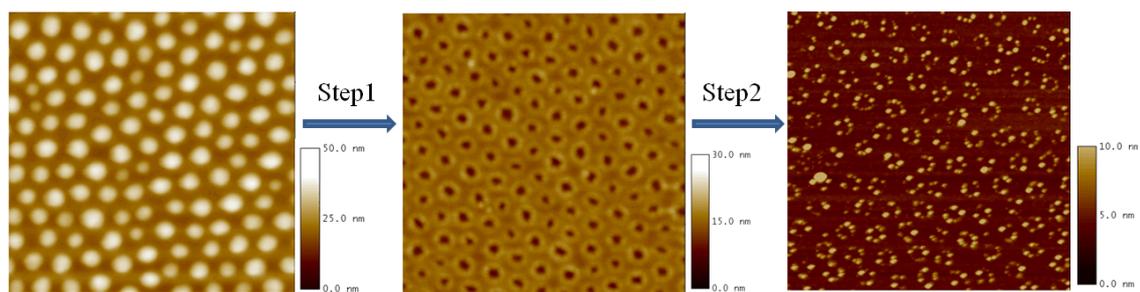
Fig. S4 AFM topography images (1x1 μm^2 scan) of (left) reverse PS-*b*-P2VP (102-97 kg/mol, 0.5 wt% in o-xylene) micelles spin-coated at 4000 rpm on silicon substrate, (center) loaded polymeric nanorings after immersion in 1 mM $HAuCl_4$ /0.9 wt% HCl (aq.) for 10 min, and (right) gold nanoring array after oxygen plasma treatment.