

Supporting information for:

Assessing the Location of Surface Plasmons over  
Nanotriangle and Nanohole Arrays of different size and  
periodicity

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Table S1. Raman imaging at a 532 nm excitation wavelength for nanohole arrays designed by NSL with 125 nm Ag film as a function of the diameter/periodicity (D/P) ratio.

	Nanotriangle D/P = 1.0	Transition state 0.75 > D/P > 0.6			Nanohole D/P < 0.6		
650 nm							
820 nm							
1000 nm							
1500 nm							
FDTD							



Table S2. Raman imaging at a 633 nm excitation wavelength for nanohole arrays designed by NSL with 125 nm Ag film as a function of the diameter/periodicity (D/P) ratio.

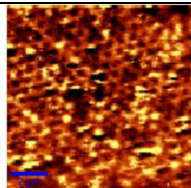
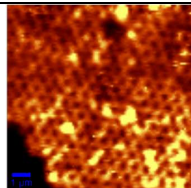
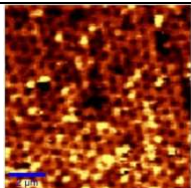
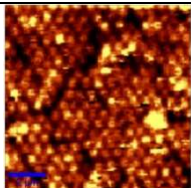
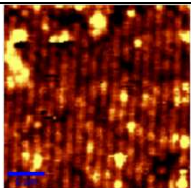
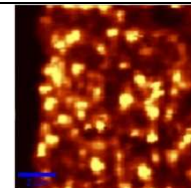
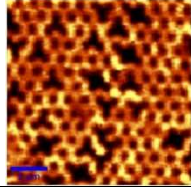
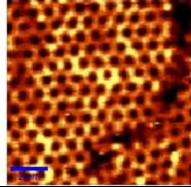
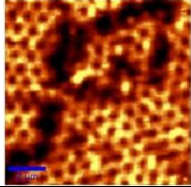
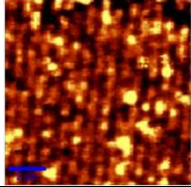
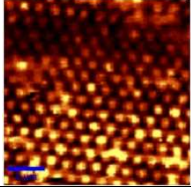
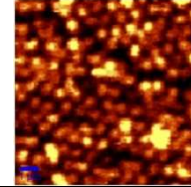
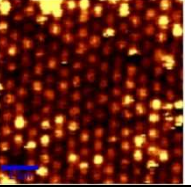
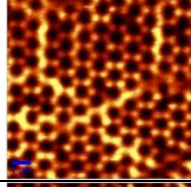
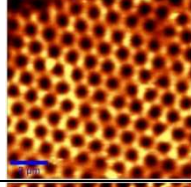
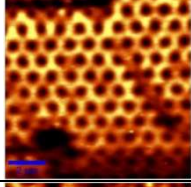
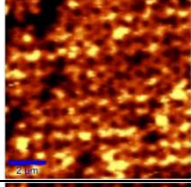
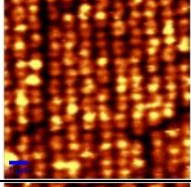
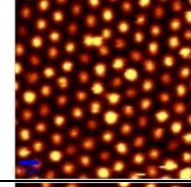
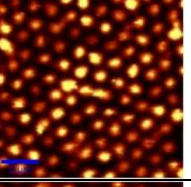
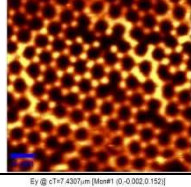
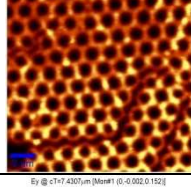
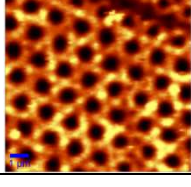
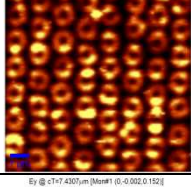
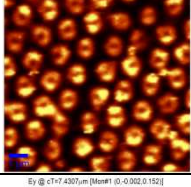
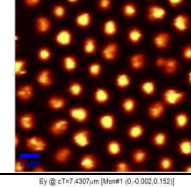
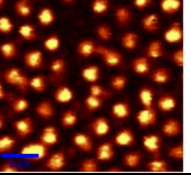
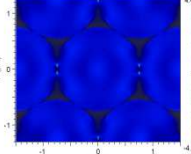
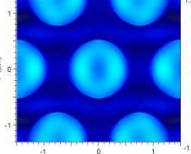

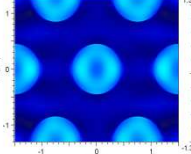
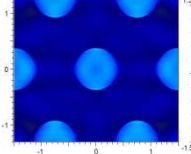
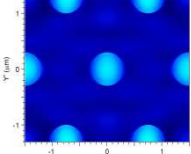
	<b>Nanotriangle</b> <b>D/P = 1.0</b>	<b>Transition state</b> <b>0.75 &gt; D/P &gt; 0.6</b>			<b>Nanohole</b> <b>D/P &lt; 0.6</b>			
<b>650 nm</b>								
<b>820 nm</b>								
<b>1000 nm</b>								
<b>1500 nm</b>								
<b>FDTD</b>	 Ey @ c17.4307um [Mesh#1] [0.-0.002,0.152] 4.40712	 Ey @ c17.4307um [Mesh#1] [0.-0.002,0.152] 1.32315	 Ey @ c17.4307um [Mesh#1] [0.-0.002,0.152] 1.36636	 Ey @ c17.4307um [Mesh#1] [0.-0.002,0.152] 1.55222	 Ey @ c17.4307um [Mesh#1] [0.-0.002,0.152] 1.52222	 Ey @ c17.4307um [Mesh#1] [0.-0.002,0.152] 1.22841		

Figure S1. SEM image for nanohole arrays fabricated from NSL masks for a periodicity of 1500 nm with a 125 nm Au layer etched for 15 minutes under oxygen plasma.

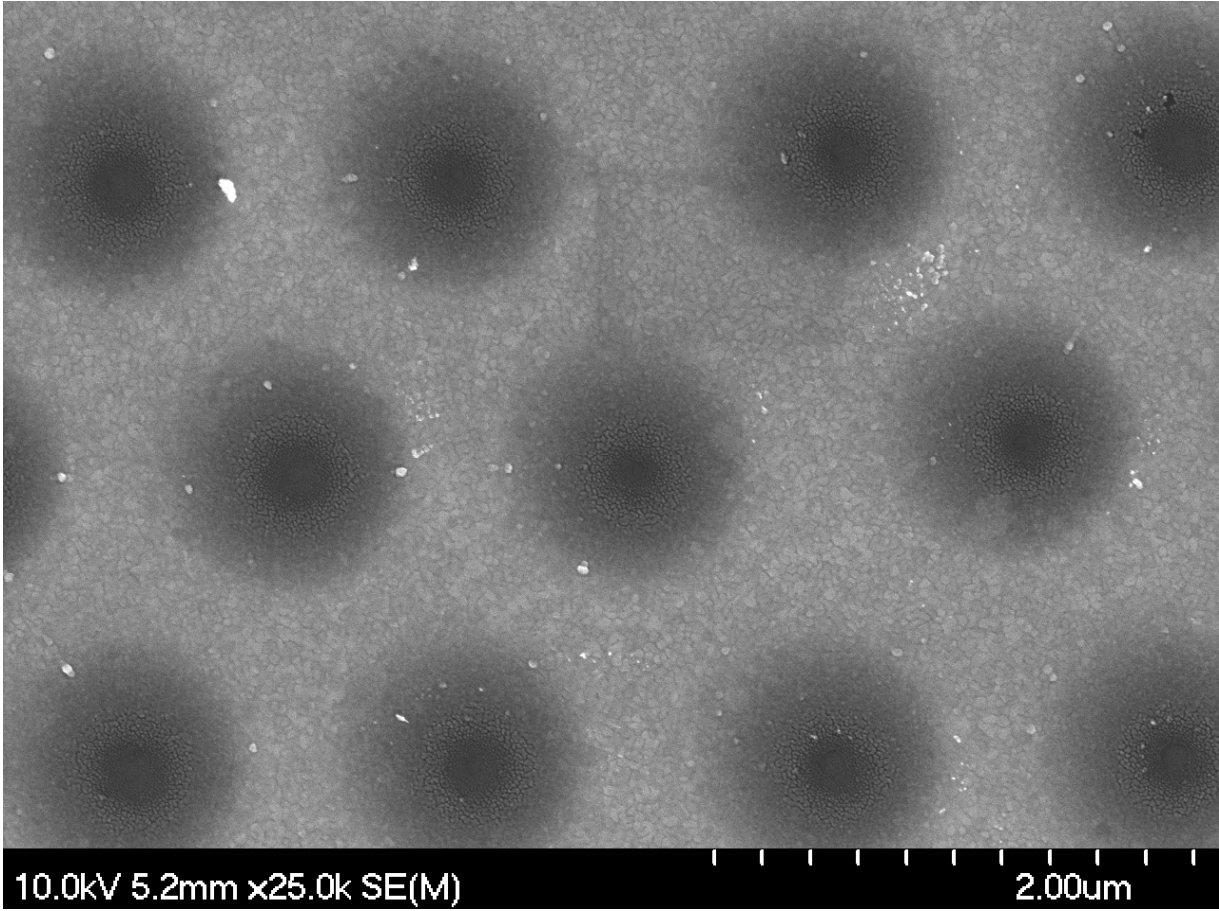


Table S3. Composition of the nanosphere solutions and drop size used for the drop coating.

	<b>Periodicities</b>			
	<b>650 nm</b>	<b>820 nm</b>	<b>1000 nm</b>	<b>1500 nm</b>
<b>Water (μL)</b>	720	200	200	25
<b>Ethanol (μL)</b>	160	100	100	25
<b>Nanosphere stock solution (μL)</b>	120	37	45	45
<b>Drop size (μL)</b>	37	35	37	40