

## Supporting Information

### **Fabrication of highly uniform three-dimensional SERS substrates by control of wettability**

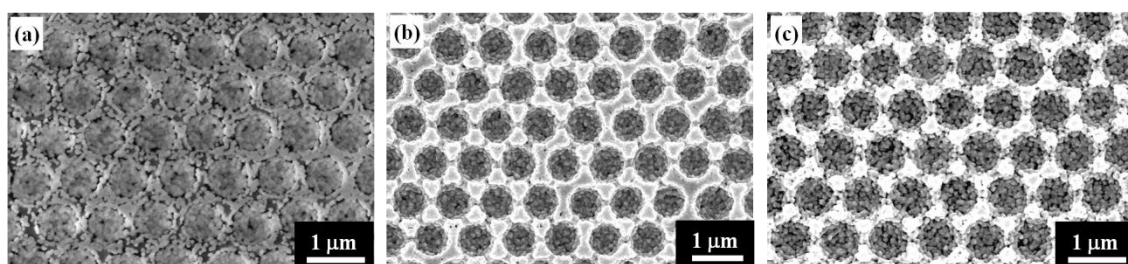
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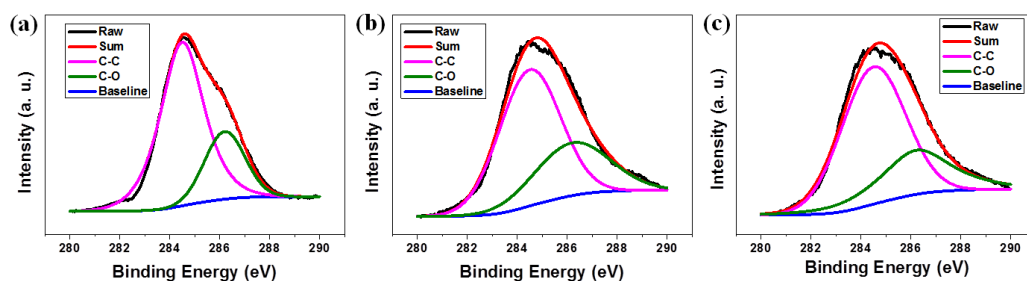
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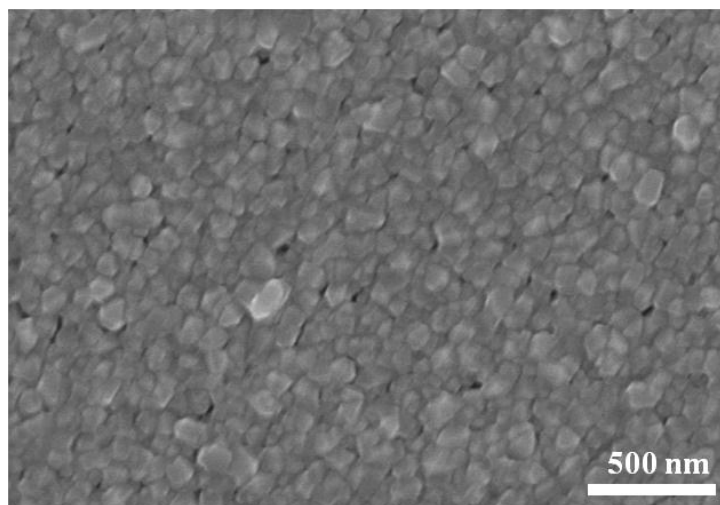
**Fig. S1.** Water profile on the as-prepared SU-8 void array. The water contact angle is  $120^\circ$ .



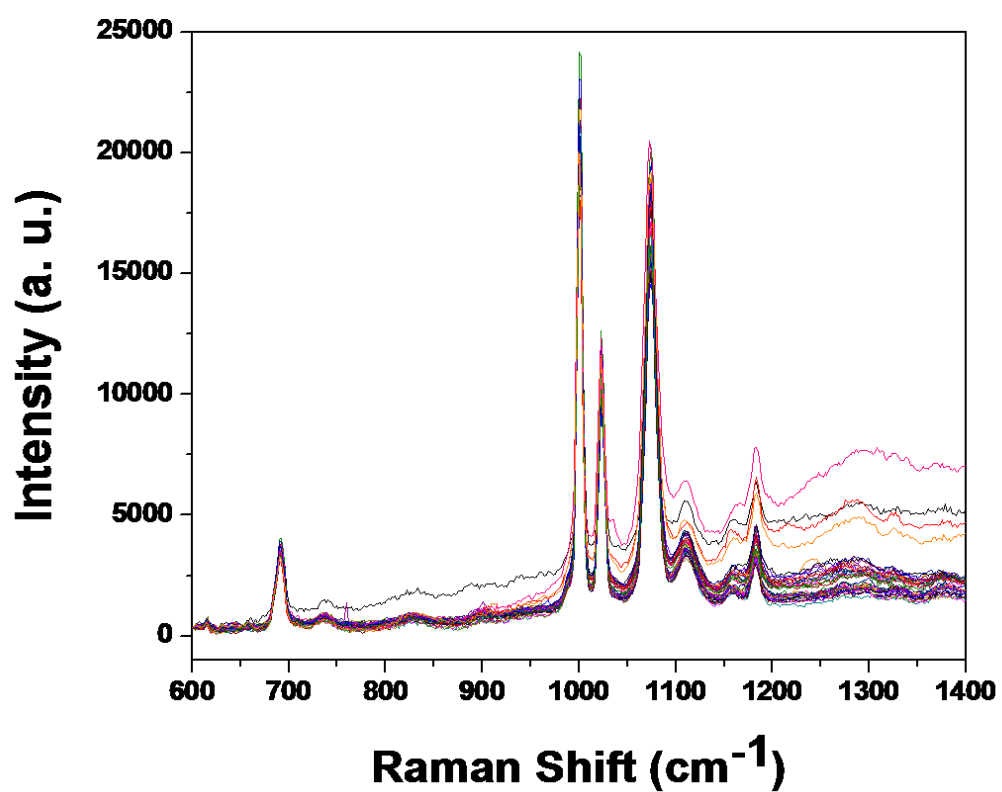
**Fig. S2.** (a) SEM image of SU-8 microvoid arrays with aggregated Ag nanoparticles. SEM images of microbowl arrays covered with aggregated Ag nanoparticles after (d) 1 min and (c) 2 min of O<sub>2</sub> RIE, and followed by 2 min of Ag electroless deposition.



**Fig. S3.** C 1s narrow spectra of the SU-8 surfaces for (a) the as-prepared SU-8 film and the modified SU-8 film after (b) 1 min and (c) 2 min O<sub>2</sub> RIE. The pink and green lines represent C-C and C-O components, respectively. The blue line shows Shirley background.



**Fig. S4.** An SEM image of Ag film deposited on the bare Si wafer.



**Fig. S5.** SERS spectra of 2 μM benzenethiol. Each measurement was taken from a different point.

Video S1. Complete wetting of water on modified SU-8 microstructured thin film.  
This video shows complete wetting of a water droplet on modified SU-8 microstructured surface generated by 1 min of O<sub>2</sub> RIE.