



Supplementary Materials

Self-Patterned Stretchable Electrode Based on Silver Nanowire Bundle Mesh developed by Liquid Bridge Evaporation

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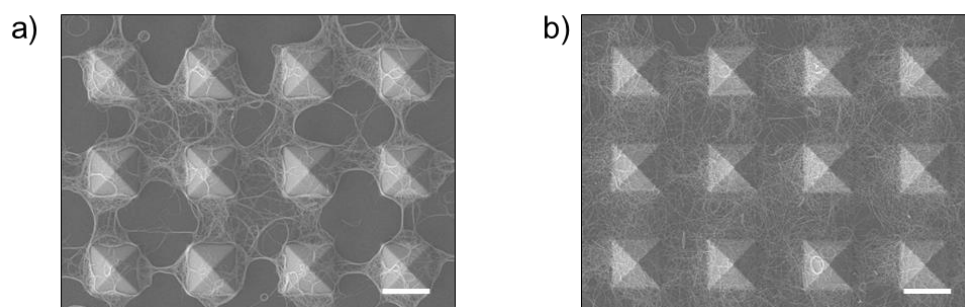


Figure S1. FE-SEM Images of surface-treated PDMS substrate by UVO. Scale bar: 10 μm ; (a) for 10 min; (b) for 60 min.

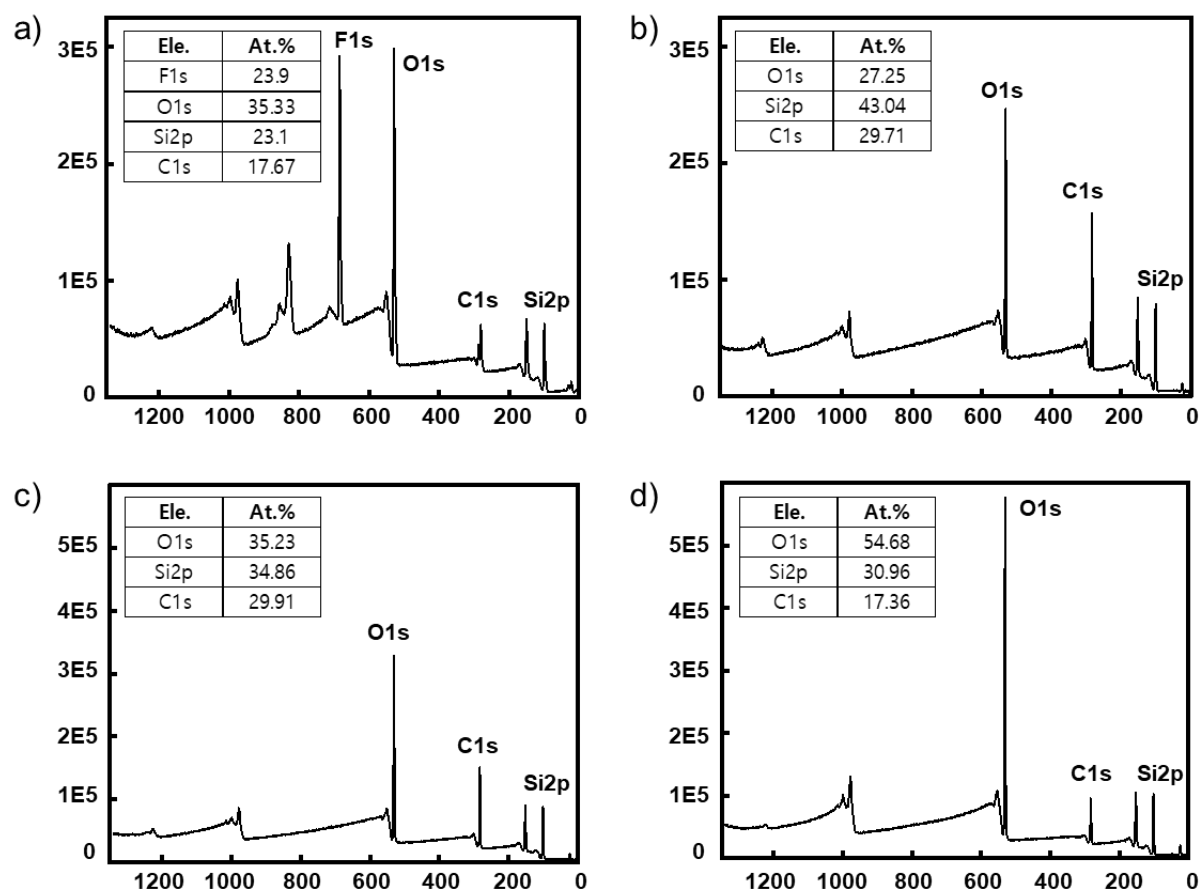


Figure S2. XPS Data of the surface treated-PDMS substrates; (a) FOTS-treated; (b) Pristine; (c) UVO treated for 10 min; (d) UVO treated for 60 min.

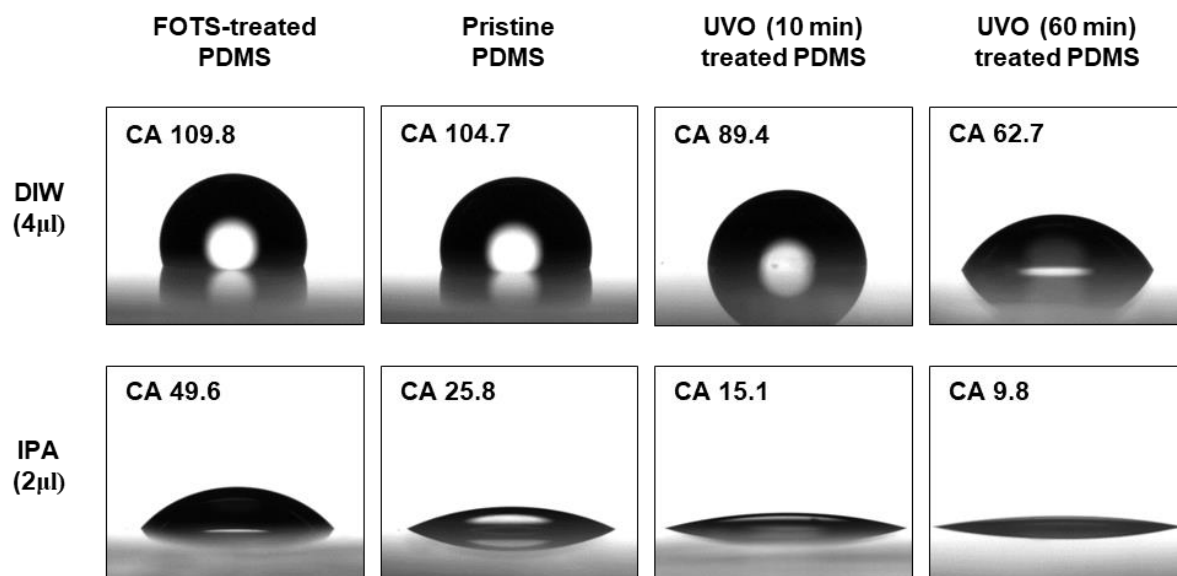


Figure S3. Images and contact angles of static droplets on pristine and surface treated PDMS substrate. The substrates are flat, not microstructured.

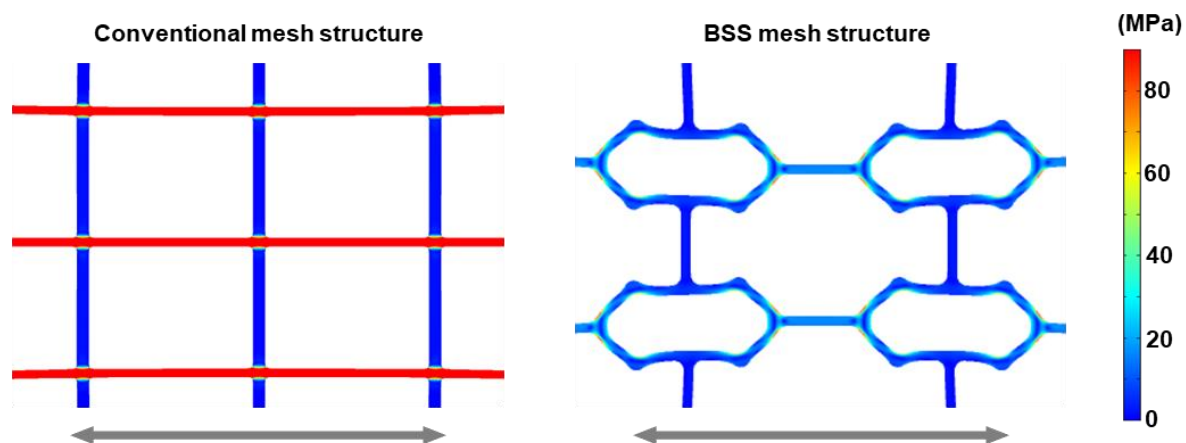


Figure S4. FEM Simulation results of the stress distribution of conventional mesh structure and the BSS mesh structure under 30% strain. The simulation was carried out under the assumption that there is only a mesh structure without a substrate.

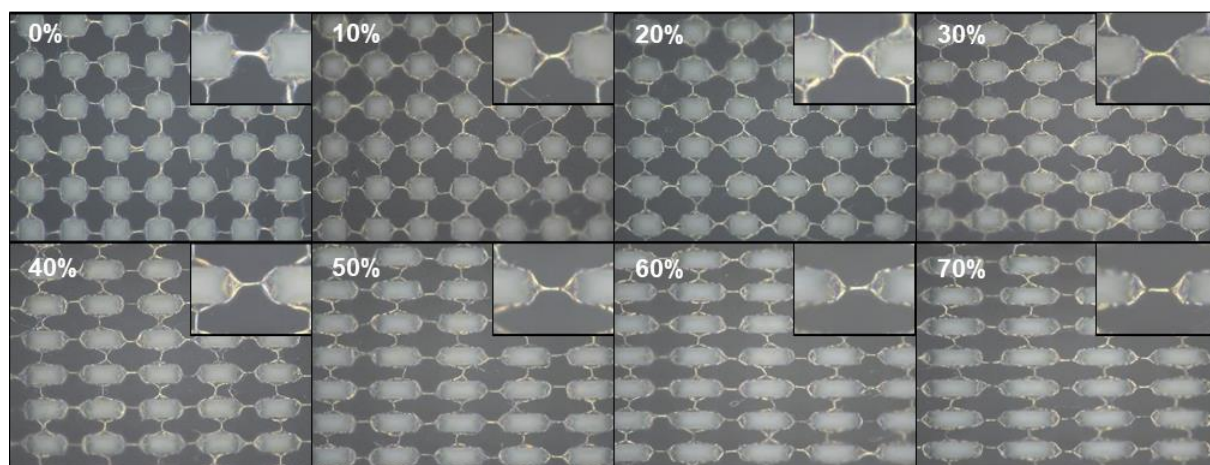


Figure S5. Optical microscopy images of the stretchable electrode stretched up to 70% tensile strain.

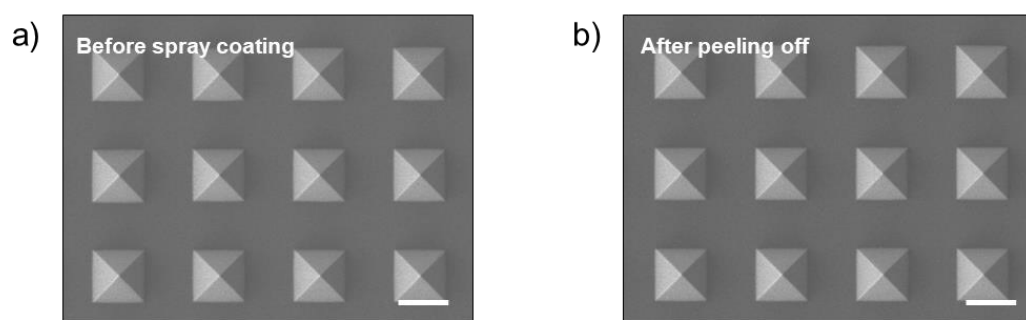


Figure S6. (a, b) FE-SEM Images of microstructured PDMS substrates before spray coating and after peeling off the stretchable electrode, respectively.