Supplementary Information

Flexible touch sensor with finely patterned Ag nanowires buried at the surface of a colorless polyimide film

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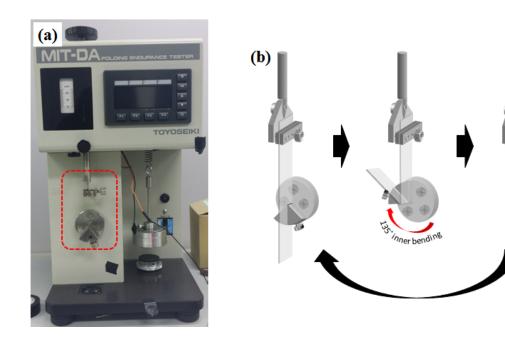


Fig. S1 An apparatus for cyclic bend testing: (a) an automatic bending machine and (b) a schematic description of bending motion.

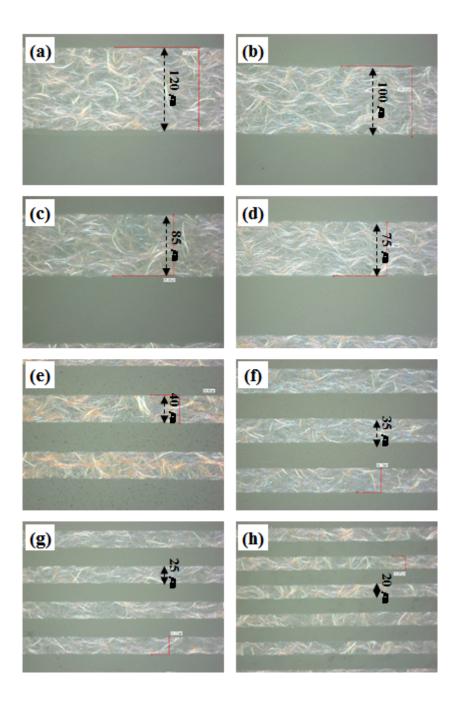


Fig. S2 AgNW circuits patterned with decreasing line width: (a) 120 μ m, (b) 100 μ m, (c) 85 μ m, (d) 75 μ m, (e) 40 μ m, (f) 35 μ m, (g) 25 μ m, and (h) 20 μ m.

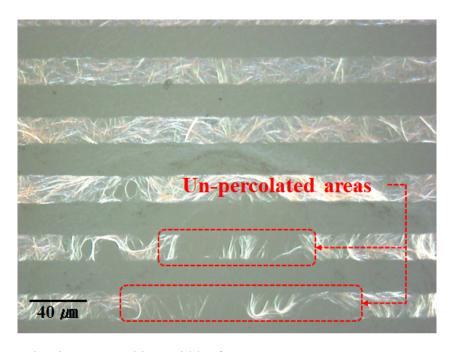


Fig. S3 AgNW circuits patterned in a width of 20 μ m.

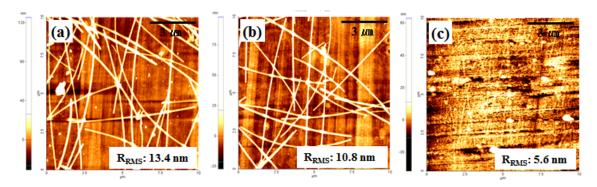


Fig. S4 Morphologies analysed by AFM: (a) pristine AgNWs coated on a Kapton film, (b) AgNWs on a Kapton irradiated by IPL, and (c) AgNWs embedded in a cPI.

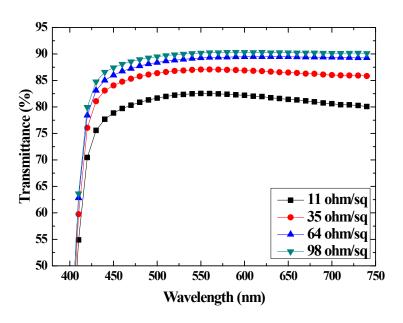


Fig. S5 Transmittance spectrums for the fabricated electrodes with varying sheet resistance.