

Supporting Information

A facile way for scalable fabrication of silver nanowire network electrodes for high-performance and foldable smart windows

*Shengyun Huang, Qingzhe Zhang, Fan Yang, Deepak Thrithamarassery Gangadharan, Pandeng Li, Fuqiang Ren, Baoquan Sun and Dongling Ma**

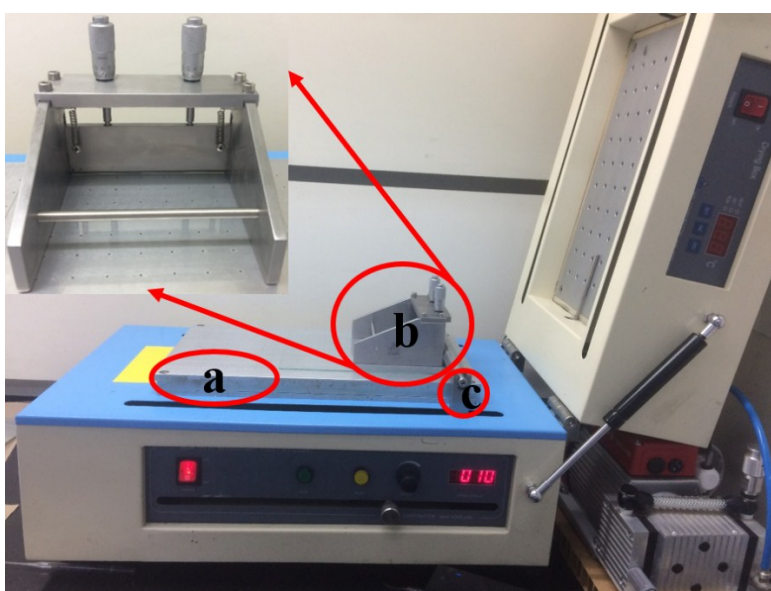


Figure S1. Photograph of the blade coating system used for preparing of Ag NW TCEs, and SPDs as well. It mainly includes three parts: (a) a vacuum chuck; (b) a micrometer adjustable film applicator; (c) a traverse pusher.

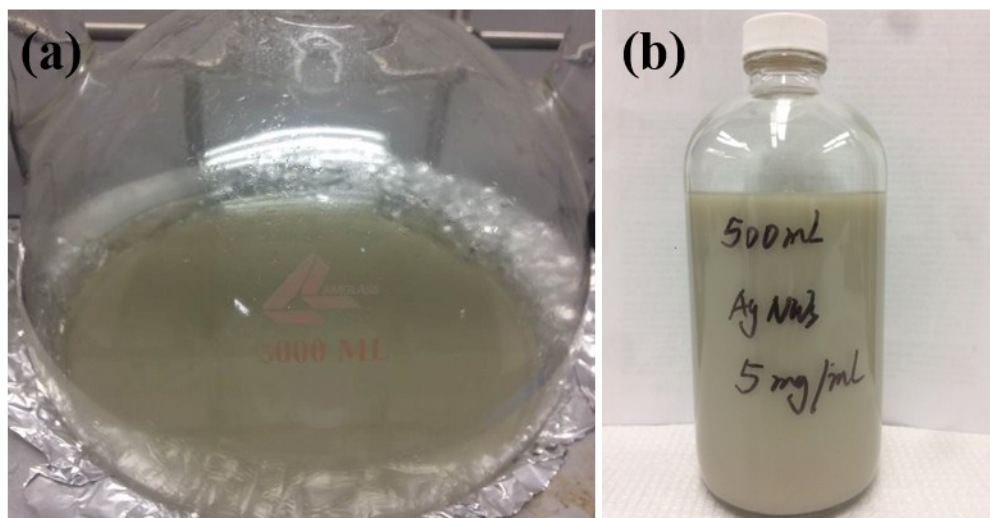


Figure S2. (a) Photograph of a 5000 mL reaction flask containing Ag NWs synthesized at 110 °C for 15 hours. (b) 500 ml Ag NWs-in-IPA dispersion with concentration of 5 mg/ml.

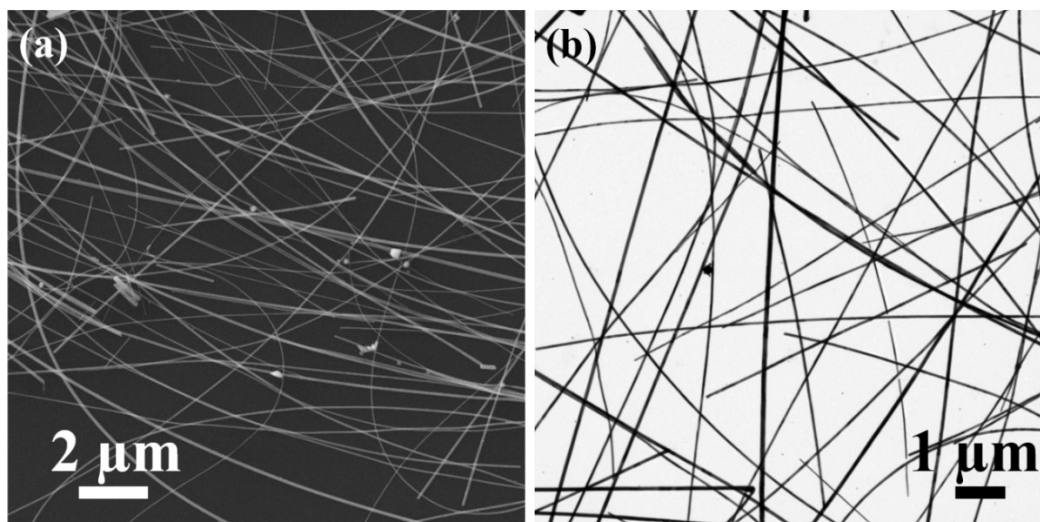


Figure S3. (a) SEM image and (b) TEM image of the as-prepared Ag NWs.

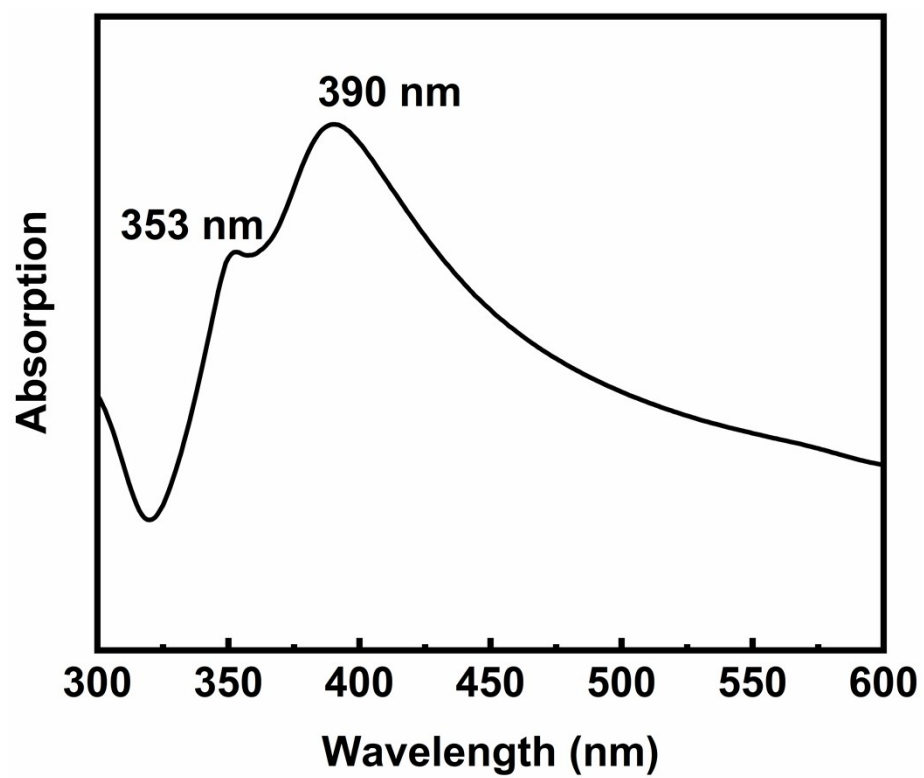


Figure S4. UV/vis spectrum of the as-prepared Ag NWs.

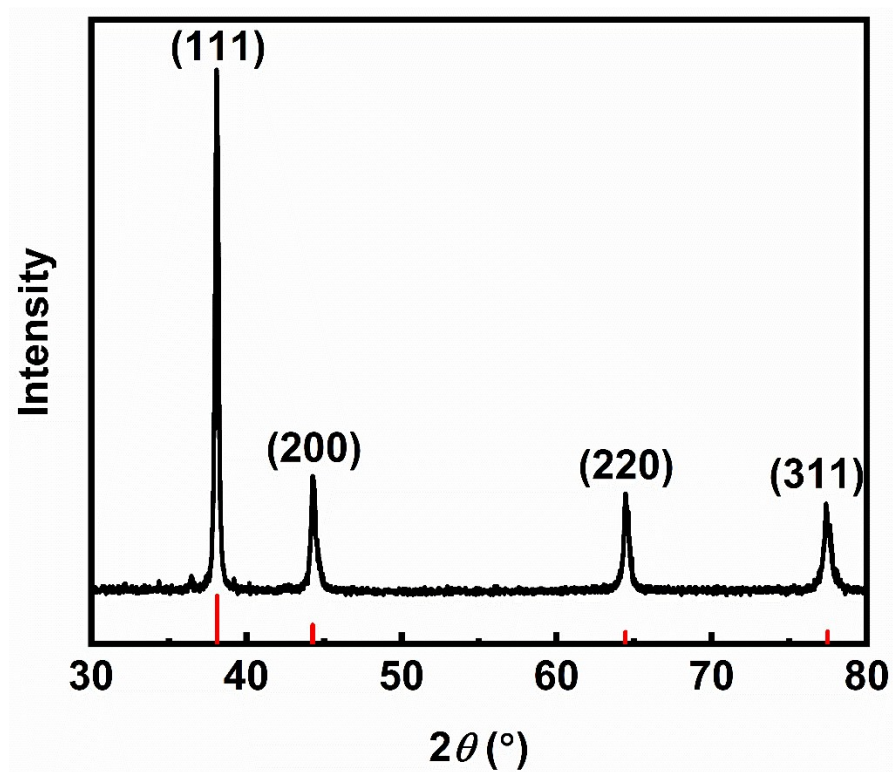


Figure S5. Powder XRD pattern of the as-prepared Ag NWs.

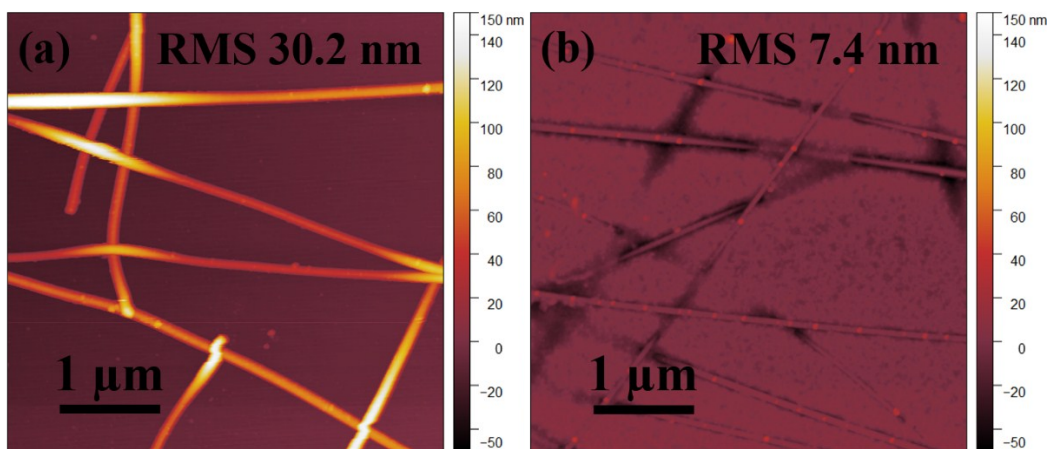


Figure S6. AFM images of (a) Ag NWs on a glass substrate and (b) free-standing Ag NW TCE, showing that Ag NWs are partly embedded into the flexible polymer matrix.

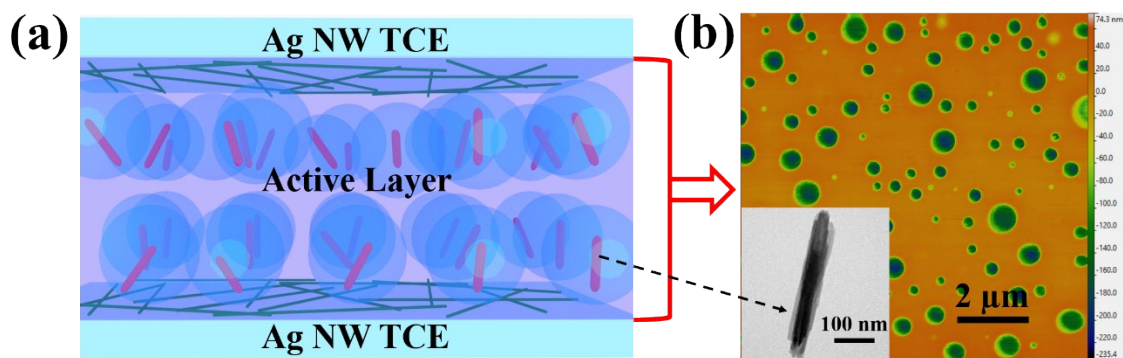


Figure S7. (a) Schematic illustration of the device structure of the SPD. (b) AFM image of the electro-optically active layer, showing many spherical droplets surrounded by the polymer matrix. The droplets are composed of the polyiodide nanorods and the suspension medium. The inset is the TEM image of polyiodide nanorod.

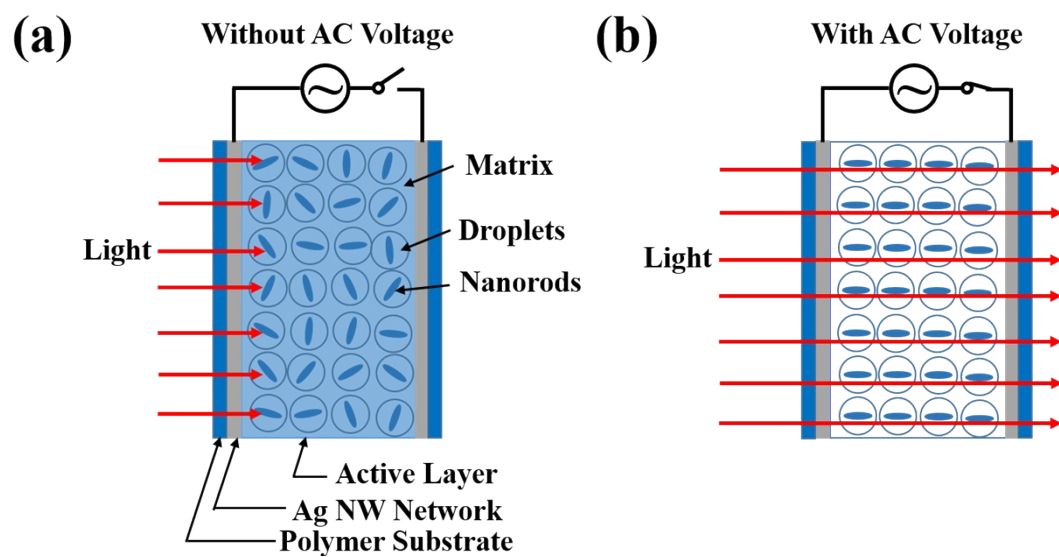


Figure S8. Schematic illustration of the SPD without (a) and with (b) AC voltage.