

Electronic Supplementary Information

Roll-to-Roll-Compatible, Flexible, Transparent Electrodes Based on Self-Nanoembedded Cu Nanowires Using Intense Pulsed Light Irradiation

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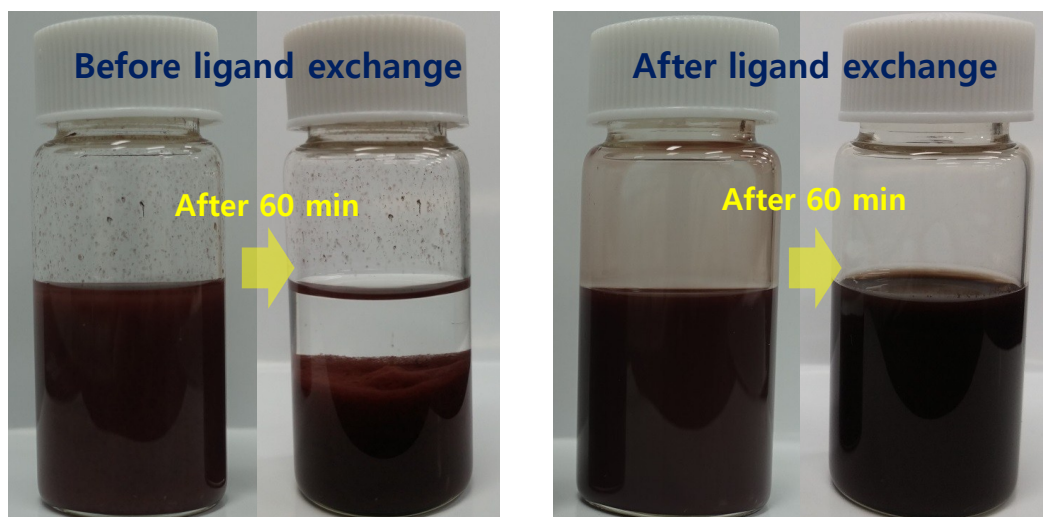


Fig. S1 The photographs showing the dispersion states of Cu NWs before and after ligand exchange with PVP55K in IPA.

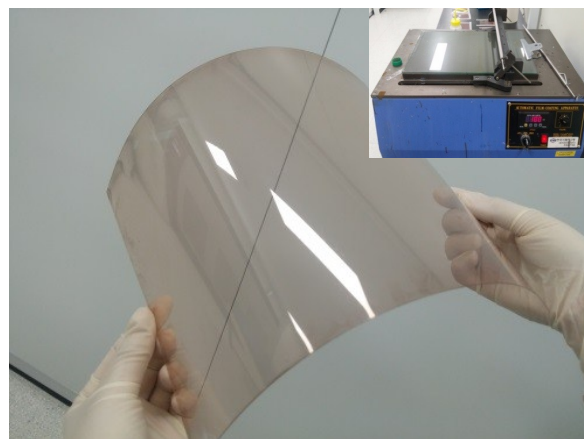


Fig. S2 Image of the Cu NW film that was fabricated using an automatic Meyer bar coater (inset).

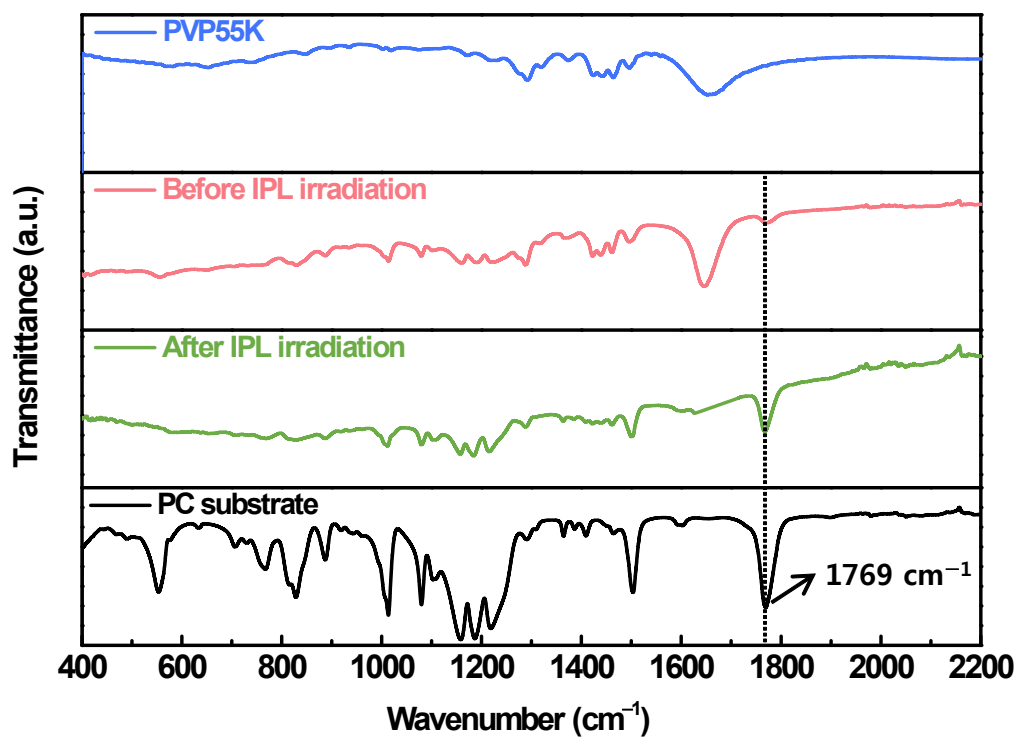
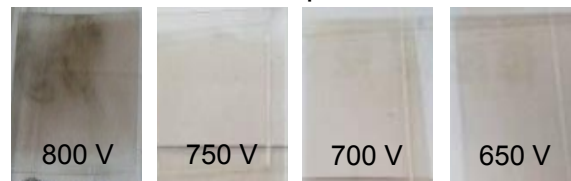


Fig. S3 FTIR spectra of (a) pristine PVP55K powder, (b) Cu NW film before IPL irradiation, (c) Cu NW film after IPL irradiation at 500 V with a 1-ms irradiation time and (d) bare PC substrate.

Irradiation time: 400 μ s



Voltage : 800 V

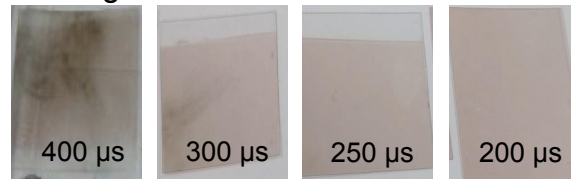


Fig. S4 Images of the IPL-treated Cu NW films as a function of voltage and irradiation time.



Fig. S5 Image of the film that was partially damaged due to excessive energy absorption from a large-area IPL overlap.