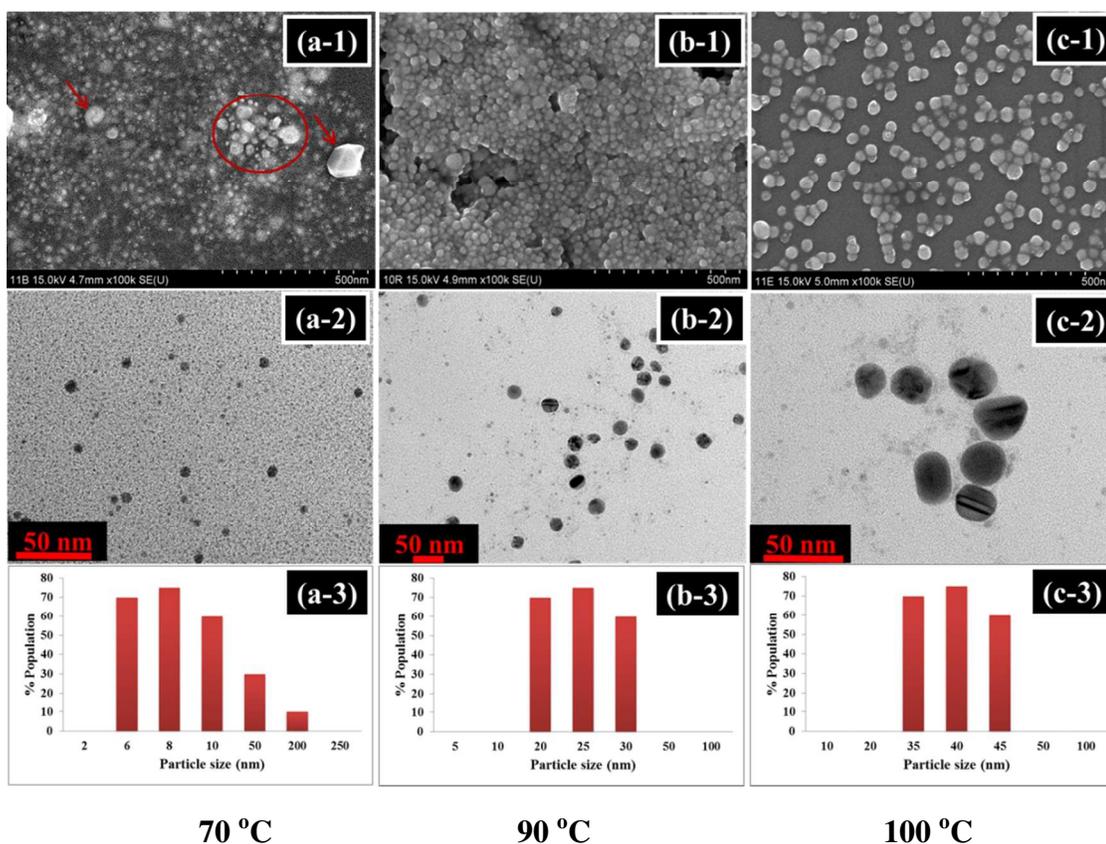


## Supporting Information

### Inkjet Printed Fractal-Connected Electrodes with Silver Nanoparticles Ink

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**Figure 1S.** (a-1) FESEM, (a-2) TEM and (a-3) histogram of Ag NPs synthesized at 70 °C; (b-1) FESEM, (b-2) TEM and (b-3) histogram of Ag NPs synthesized at 90 °C; (c-1) FESEM, (c-2) TEM and (c-3) histogram of Ag NPs synthesized at 100 °C. All experiments were carried out in constant water/ethylene glycol concentration.

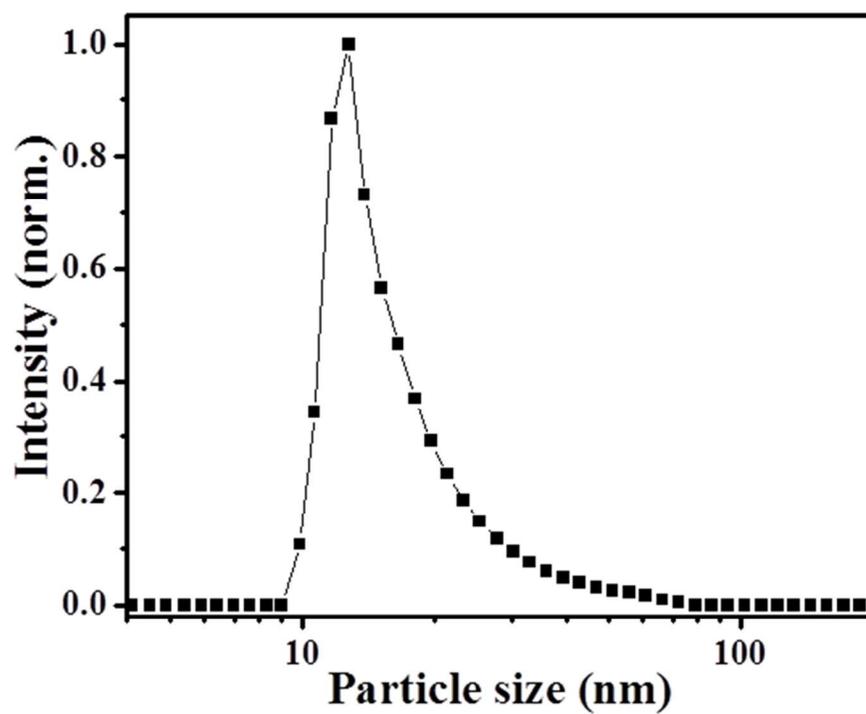
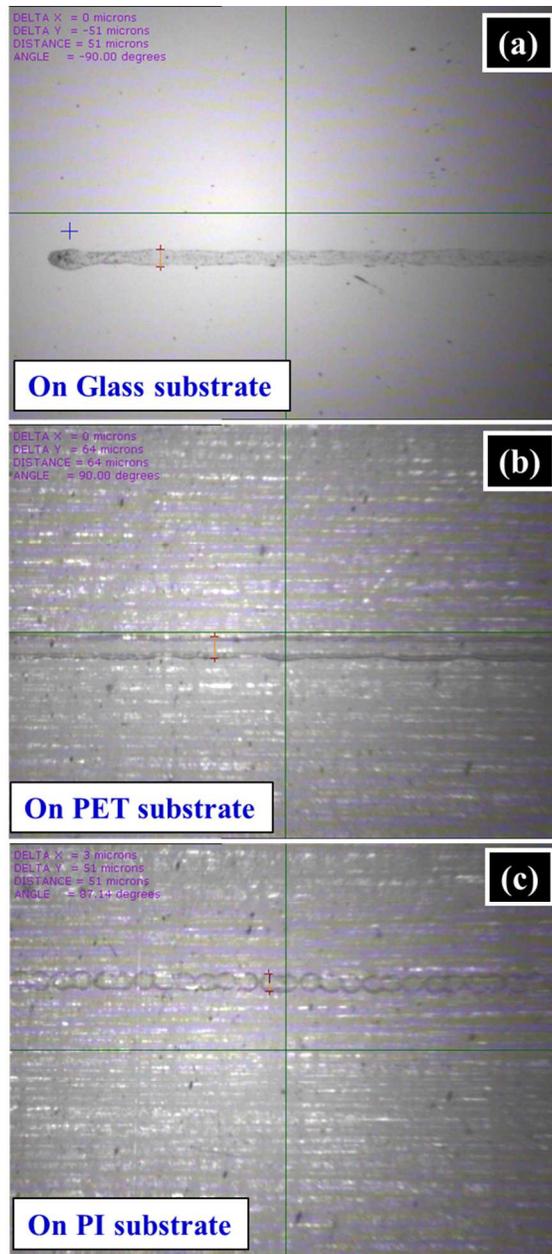


Figure 2S. Dynamic light scattering measurement for PVP stabilized Ag ink sample.



**Figure 3S.** CCD camera images of Ag line printed on (a) glass, (b) PET, and (c) PI substrates with drop-spacing of 30  $\mu\text{m}$ .