Electronic Supplementary Material (ESI) for Nanoscale Advances.

Supporting Information

Title: Inkjet Printing of Silver nanowire on flexible surfaces and methodologies to improve conductivity and stability of the printed patterns

1. Details of the cartridge used for printing

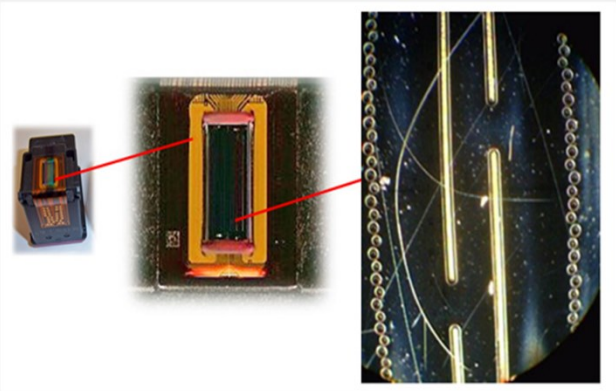


Figure 1 - A high resolution image of a cartridge nozzle plate (Ref : https://inkjet411.com/?page_id=8990)

Table 1. Parameters of cartridge

Page yield (black and white)	~600 pages
Print head nozzles	336
Printhead swath (inch)	1.42 cm (0.56)
Nozzle diameter	~10 µm
Cartridge color	Black
Technology	Ink
Print cartridge volume delivered	4 ml
Operating temperature range	15 to 32° C
Non-Operating Humidity Range	20 to 80% RH
Operating humidity range	20 to 80% RH
Weight	29.84 g
Print technology	HP Thermal Inkjet
Max Printing Speed	0.0983 m/s (98.3 mm/s)

(Ref : https://store.hp.com/in-en/default/hp-703-black-original-ink-advantage-cartridge-cd887aa.html)

2. Spin coating

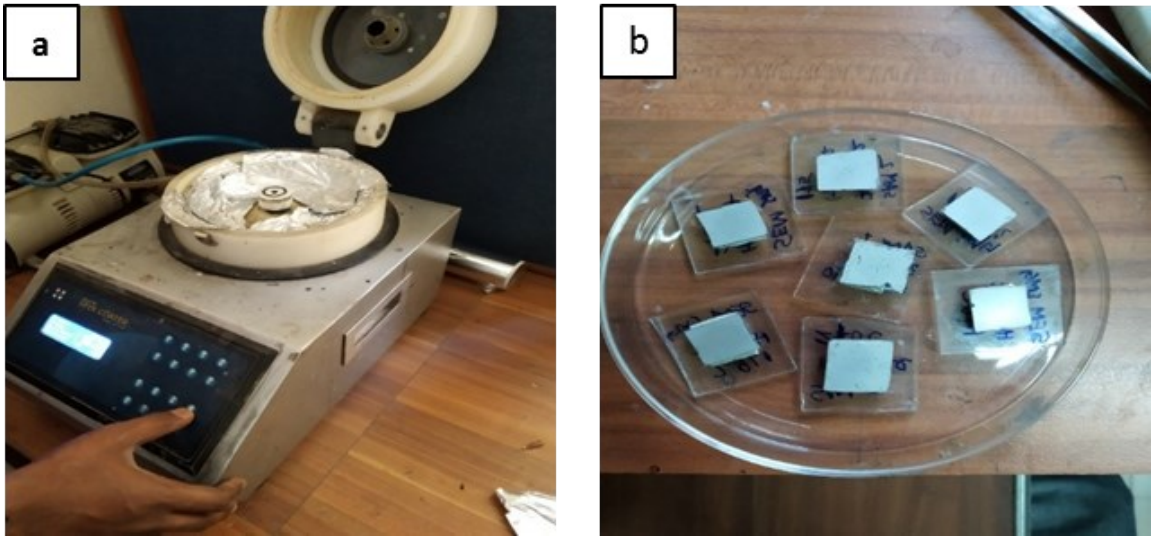
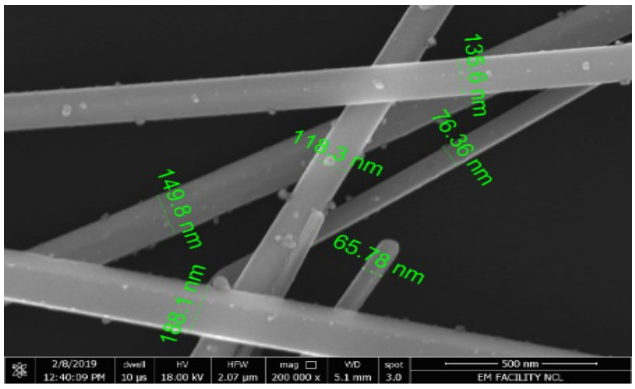
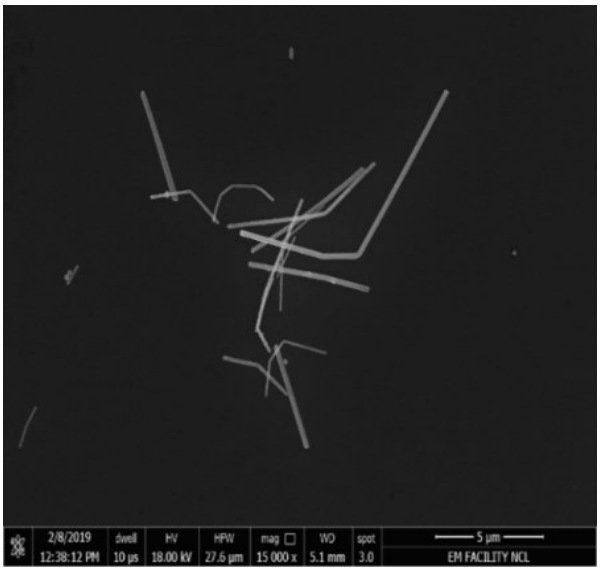


Figure 2: (a) Spin coating set up and (b) Spin coated silver nanowires ink formulation on glass slide.

3. Diameter of the Nanowire



(a)



(b)

Figure 3: FE-SEM images of: (a) nanowires having average diameter of 121 nm and (b) nanowires after 6 hours of sonication