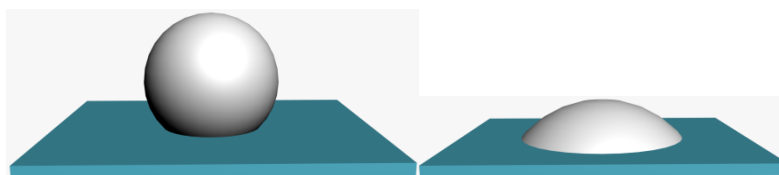


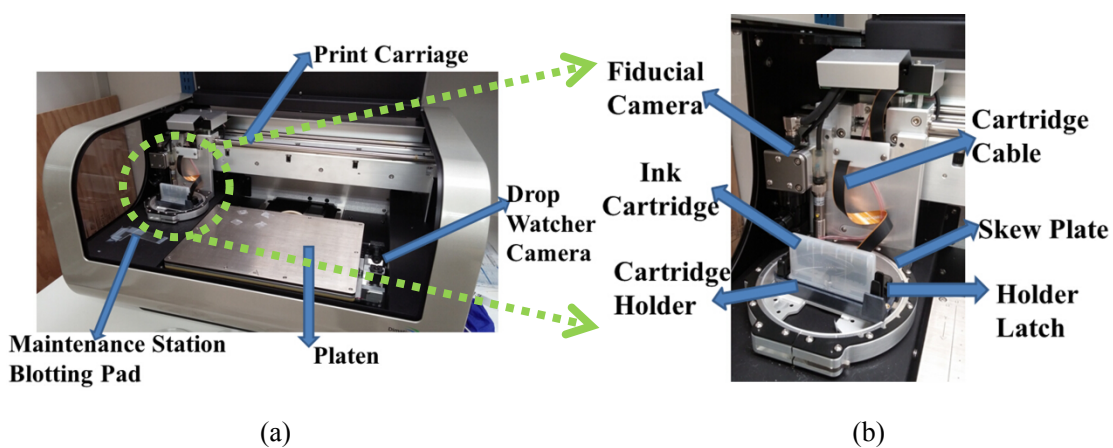
Electronic Supplementary Information



(a) Hydrophobic surface

(b) Hydrophilic surface

Fig. S1 Drop state of water on hydrophobic and hydrophilic surface, respectively



(a)

(b)

Fig. S2 The inkjet printing silver deposition system

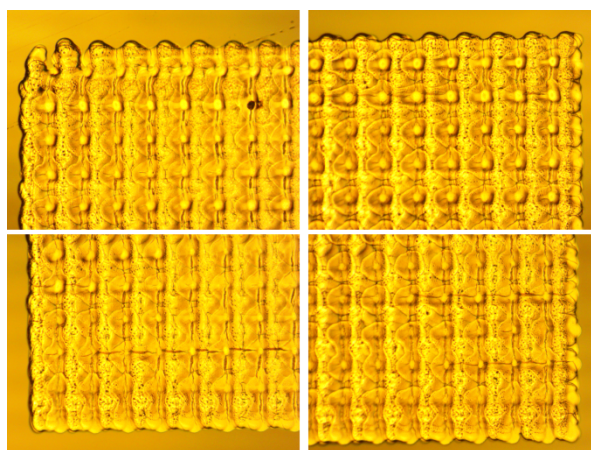


Fig. S3 2 mm * 2 mm pad on MPTMS modified PDMS

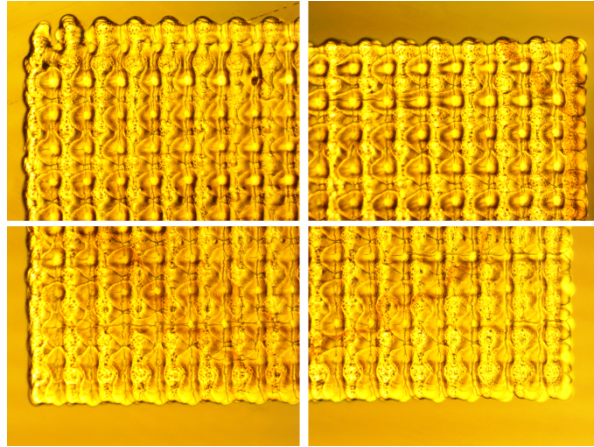


Fig. S4 The pad after immersion for two hours

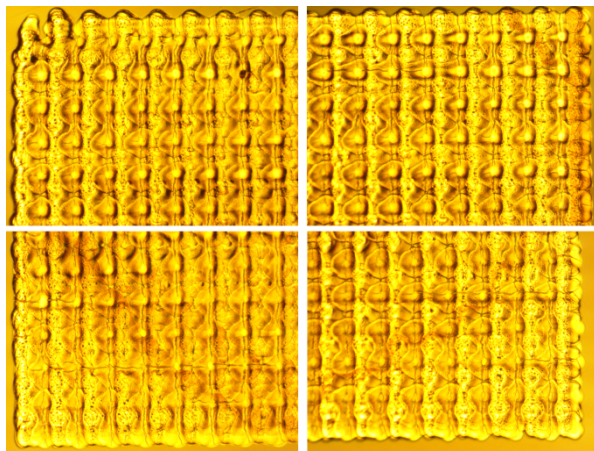


Fig. S5 The patterns after blowing with air stream for 5 minutes

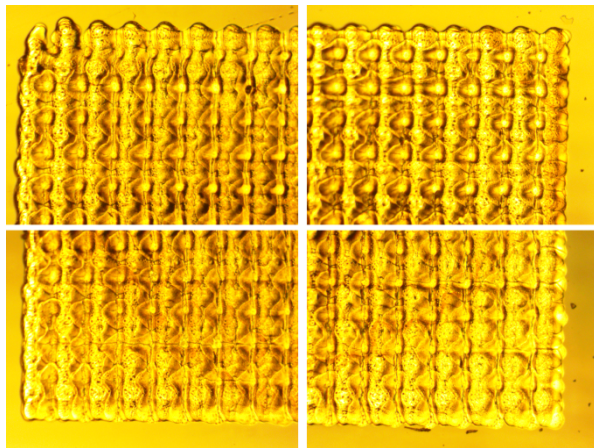


Fig. S6 The resulting patterns after ultrasonication test

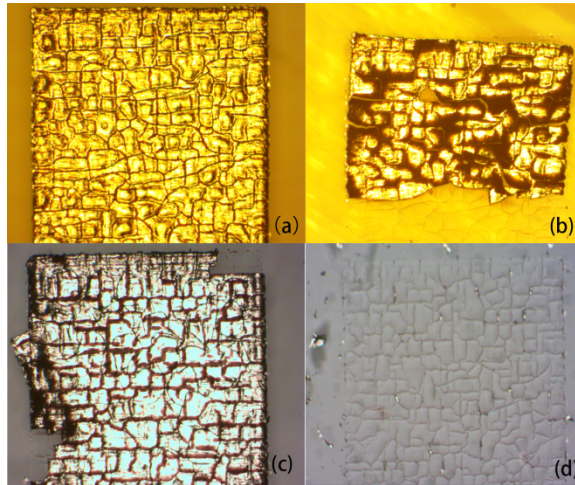


Fig. S7 (a) original 2 mm * 2 mm pad on O₂ plasma treated PDMS, (b) pattern state after soaking test, (c) pattern state after blowing test, (d) pattern disappeared after ultrasonication test

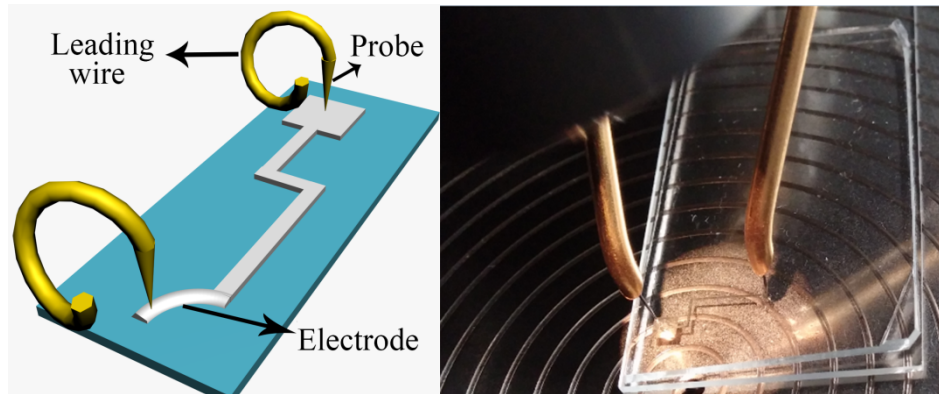


Fig. S8 The resistance measurement device under microscope