

## SUPPLEMENTARY

### Surface acoustic wave-based generation and transfer of droplets onto wettable substrates

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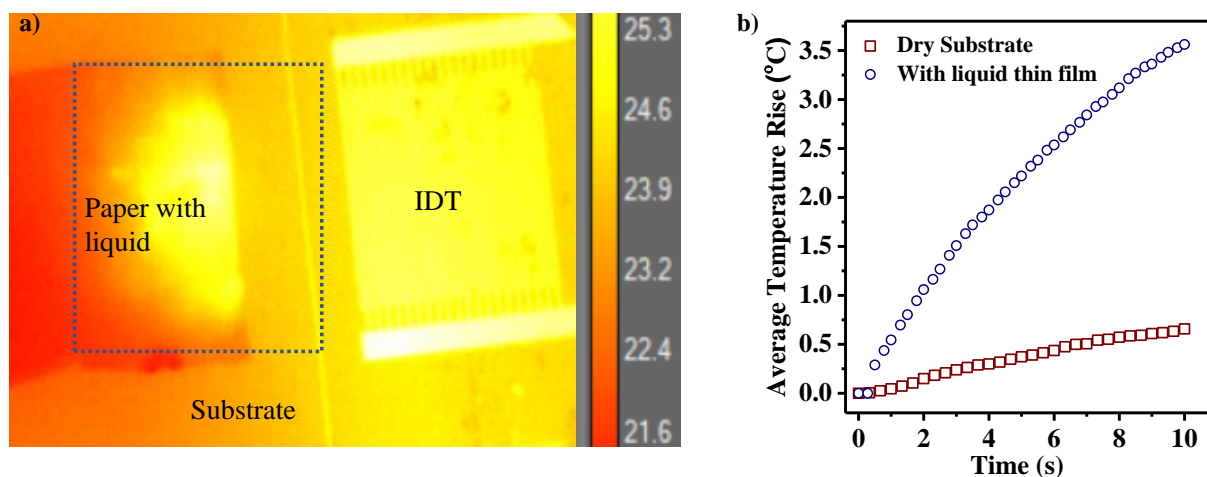
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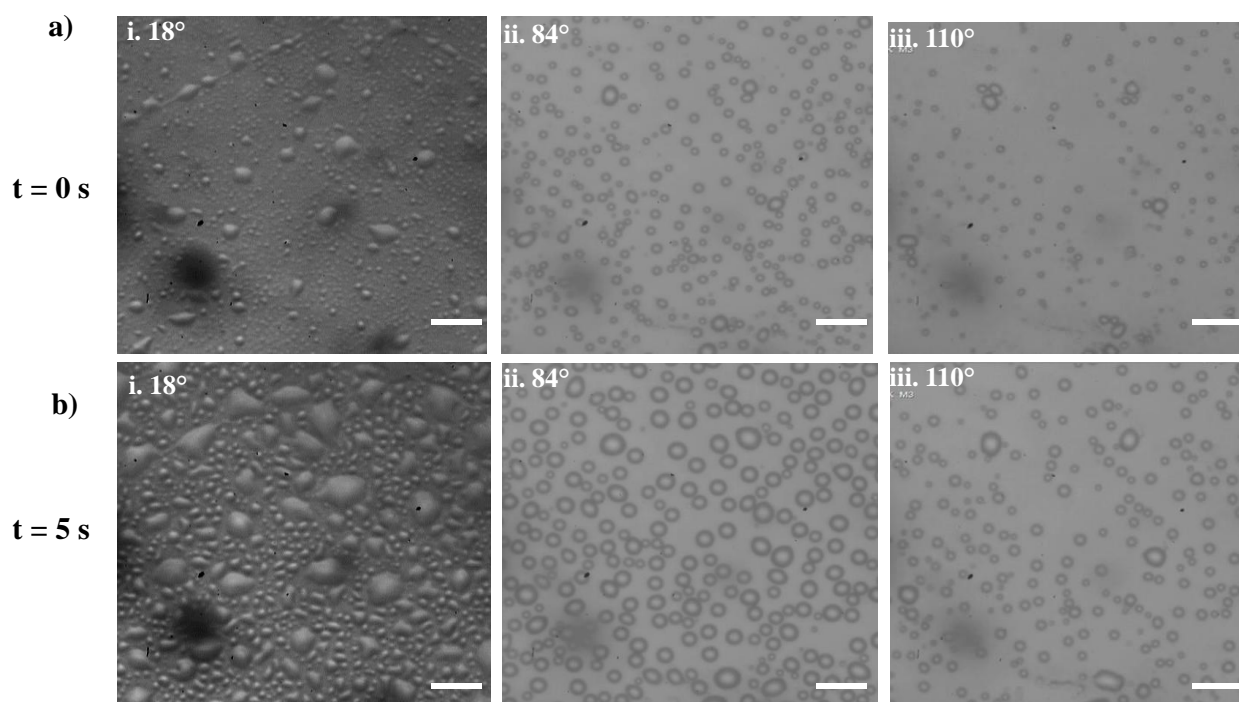
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#### Thermal Images:



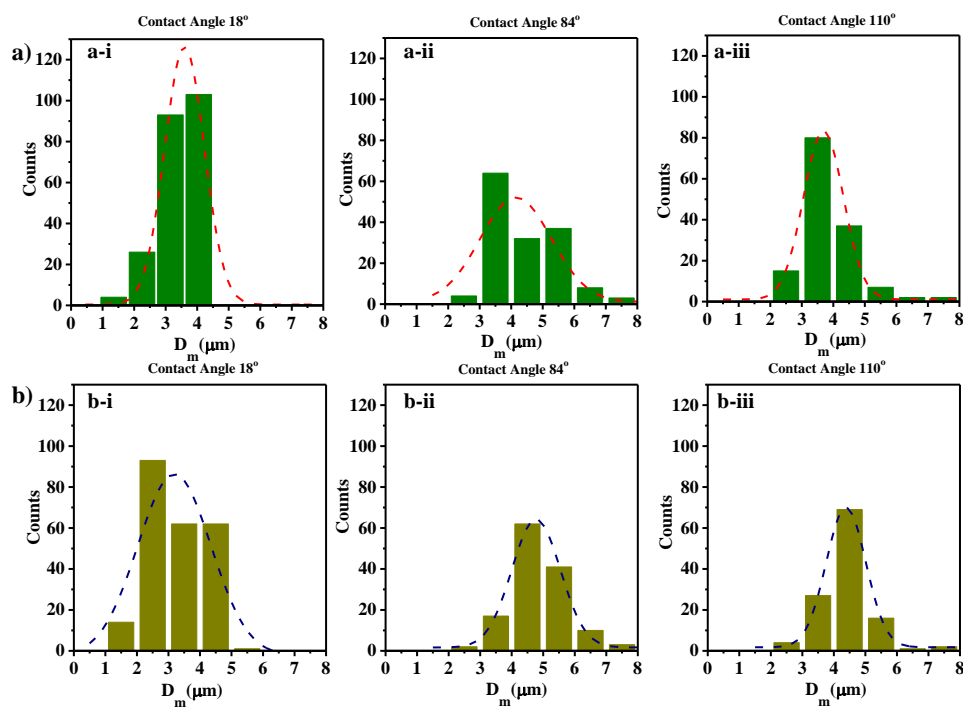
**Fig. S1** (a) Thermal IR image of the substrate during SAW actuation at time  $t = 10$  s. The temperature values in the thermal palette is in °C (b) Average temperature rise of the substrates (dry and wet) when SAW is actuated for 10 s.

### Experimental images of the droplets on surfaces having different WCAs:



**Fig. S2** (a) Experimental images of the droplets on surfaces having different WCA at  $t = 0$  s: (a-i)  $18^\circ$ , (a-ii)  $84^\circ$ , (a-iii)  $110^\circ$ . (b) Experimental images of the droplets on surfaces having different WCA at  $t = 5$  s: (b-i)  $18^\circ$ , (b-ii)  $84^\circ$ , (b-iii)  $110^\circ$ . Scale bar =  $10 \mu\text{m}$ .

### Droplet size distributions:



**Fig. S3** Droplet size distributions at (a)  $t = 0$  s and (b)  $t = 5$  s on surfaces having different WCA (a-i and b-i)  $18^\circ$  (a-ii and b-ii)  $84^\circ$  (a-iii and b-iii)  $110^\circ$ .