

Electronic Supplementary Information

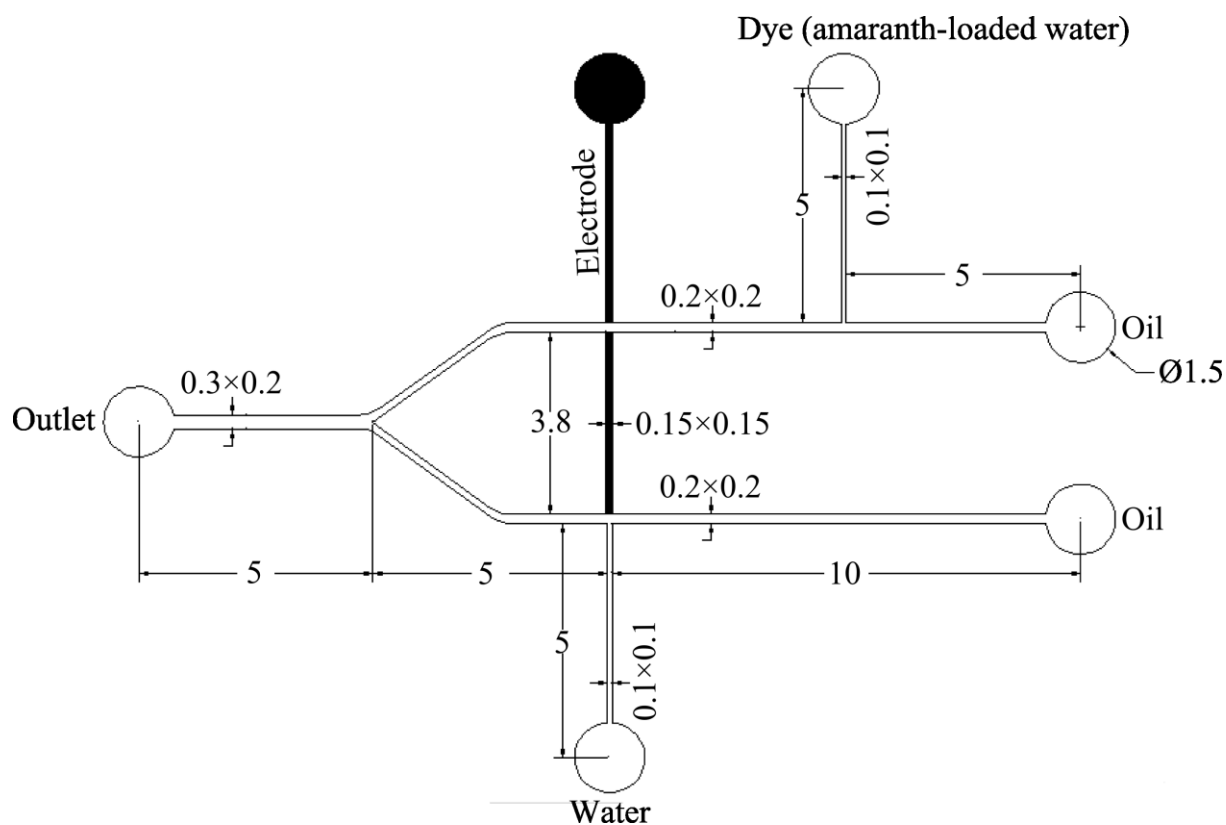
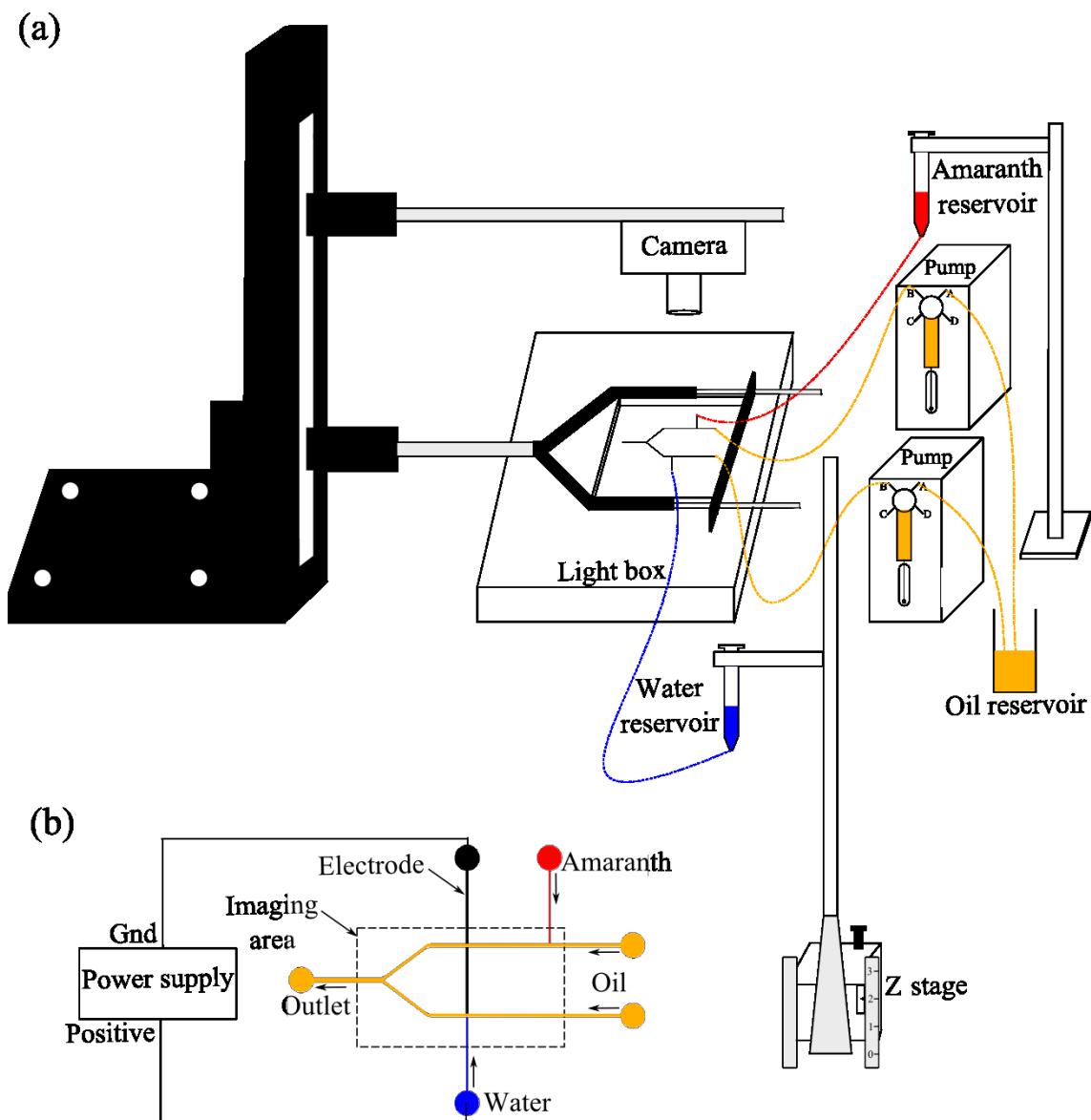


Figure S1: Layout along with dimensions of the miniaturised self-synchronised droplet production device (all dimensions are in mm)



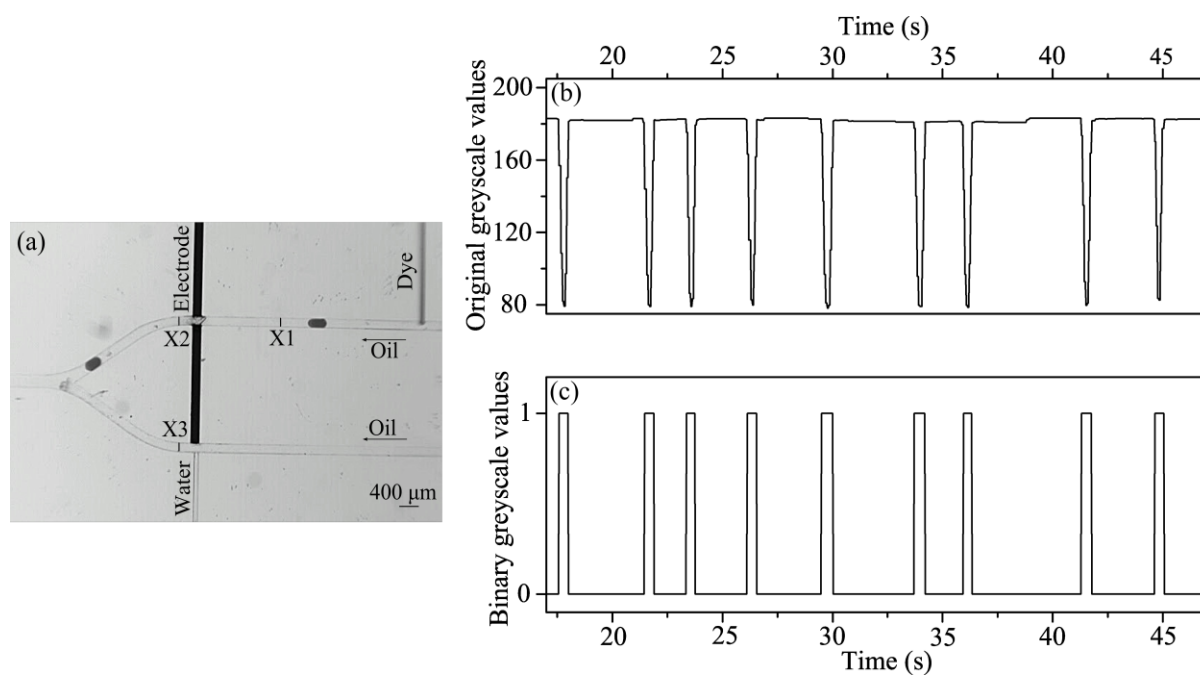


Figure S3: (a) Position of detection windows (i.e. X1, X2 and X3) and an example of light intensity values (b) before and (c) after image processing

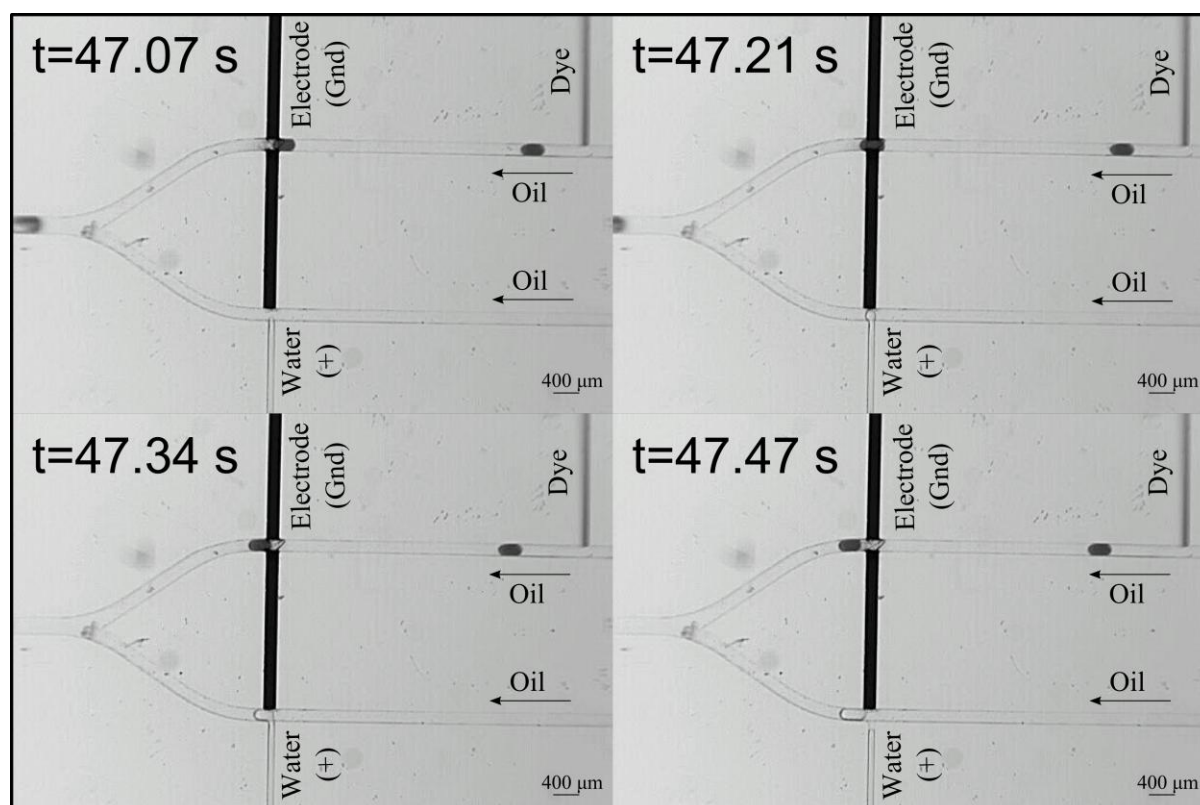


Figure S4: Generation of a water droplet as amaranth droplet passes a pair of electrodes (V_{app} : 500 V)