

Figure S1 Photo of wax droplet generating system

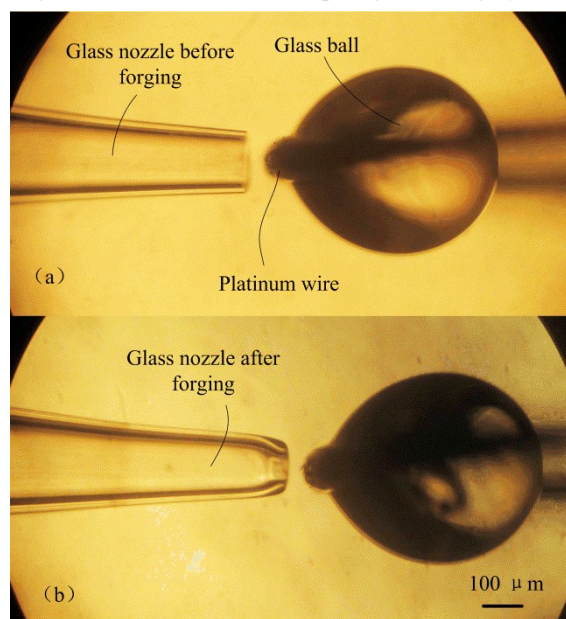


Figure S2 Photo of glass nozzle used for wax jetting, (a) Glass nozzle pulled with Sutter P2000/G and cut on the tip, the parameters are as follows: HEAT=350, FIL=5, VEL=60, DEL=225, PUL=55, (b) Forged glass nozzle with outlet diameter of 75 μm

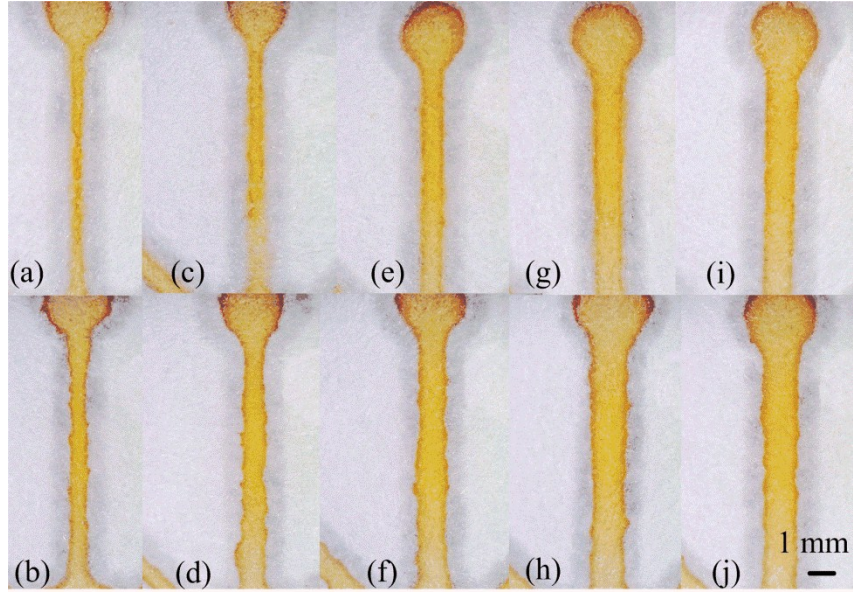


Figure S3 Photo of result channels, (a) Frontside photo of fluid channel by the wax barrier with center-to-center distance of $1400 \mu m$, (b) Backside photo of $1400 \mu m$, (c, d) Frontside and backside photos of $1600 \mu m$, (e, f) Frontside and backside photos of $1800 \mu m$, (g, h) Frontside and backside photos of $2000 \mu m$, (i, j) Frontside and backside photos of $2200 \mu m$

Table S1 Result channel width of frontside

Sample	Centre-to-centre distance (Unite: μm)				
	1400	1600	1800	2000	2200
1	701.9	894.2	1000	1355.8	1250
2	653.8	932.7	951.9	1442.3	1288.5
3	625	855.8	971.2	1403.8	1298.1
4	567.3	875	1009.6	1230.8	1288.5
5	596.2	913.5	932.7	1182.7	1317.3
6	615.4	875	1038.5	1230.8	1336.5
7	548.1	817.3	1038.5	1250	1307.7
8	548.1	807.7	1038.5	1250	1259.6
9	557.7	836.5	1019.2	1230.8	1326.9
10	567.3	778.8	1019.2	1259.6	1307.7
11	519.2	836.5	1019.2	1221.2	1365.4
12	538.5	798.1	1028.8	1298.1	1403.8
13	615.4	740.4	1038.5	1346.2	1432.7
14	576.9	750	1048.1	1346.2	1500
15	576.9	730.8	1048.1	1326.9	1413.5
Average final width	587.2	829.5	1013.5	1291.7	1339.7
Standard Deviation	48.3	62.7	35.4	75.1	70.1
Coefficient of variation	8.2%	7.6%	3.5%	5.8%	5.2%

Table S2 Result channel width of backside

Sample	Centre-to-centre distance (Unite: μm)				
	1400	1600	1800	2000	2200
1	826.9	1144.2	1153.8	1413.5	1442.3
2	807.7	1211.5	1173.1	1413.5	1442.3
3	788.5	1096.2	951.9	1432.7	1509.6
4	721.2	1115.4	1173.1	1403.8	1451.9
5	817.3	1067.3	1230.8	1288.5	1423.1
6	769.2	884.6	1346.2	1423.1	1403.8
7	740.4	961.5	1163.5	1355.8	1461.5
8	692.3	932.7	1173.1	1509.6	1413.5
9	711.5	1057.7	1115.4	1538.5	1528.8
10	644.2	884.6	1336.5	1490.4	1625
Average final width	751.9	1035.6	1181.7	1426.9	1470.2
Standard Deviation	60.1	113.5	111.5	73.4	67.3
Coefficient of variation	8.0%	11.0%	9.4%	5.1%	4.6%