Supplementary information: Table, Figures (,and videos?)

Disclaimer: This is a work in progress

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Table 1. Image properties and metrics

Experiment Stage # - Imaging mode	Image size	Calibrated pixel (px) to length
	(width x height)	conversion
Stage 1 - A	450 x 200 px	25 μm /px
Stage 1 - B, C, and D	250 x 250 px	66 μm / px
Stage 2 - C and D	400 x 300 px	83 μm / px
Stage 3 - C and D		
Stage 4 - C and D		

Stage 1: Impact, spreading, and wetting dynamics of a single drop $Stage\ 1-A\ , 10000fps$

Pristine PEDOT: PSS		Impact velocity	
Time	1.40 m/s	1.98 m/s	2.42 m/s
-0.1ms		, •	
Oms		, Q	
0.1ms		,	7 g 👚
0.2ms		, 🛖	
0.3ms		, 🌲	
0.5ms		y -	
1ms		•	
2ms			
5ms			

Figure S1. Stage1 – A, Pristine PEDOT: PSS

IPA-diluted PEDOT: PSS		Impact velocity	
Time	1.40 m/s	1.98 m/s	2.42 m/s
-0.1ms		4 Q	, 2
0ms		a Q	, 2
0.1ms			,
0.2ms			
0.3ms			-
0.5ms			•
1ms		-	-
2ms			
5ms			

Figure S2. Stage1 – A, IPA-diluted PEDOT: PSS

Stage 1 – B, 2000fps

Pristine			
PEDOT: PSS	Impact velocity		
Time	1.40 m/s	1.98 m/s	2.42 m/s
0.5ms		•	•
1ms			
		•	•
1.5ms			
2ms			
3ms			
5ms			
25ms			

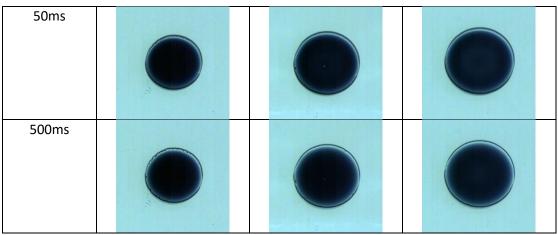


Figure S3. Stage1 – B, Pristine PEDOT: PSS

IPA-diluted			
PEDOT: PSS		Impact velocity	
Time	1.40 m/s	1.98 m/s	2.42 m/s
0.5ms	•		
1ms			
1.5ms			
2ms			
3ms			

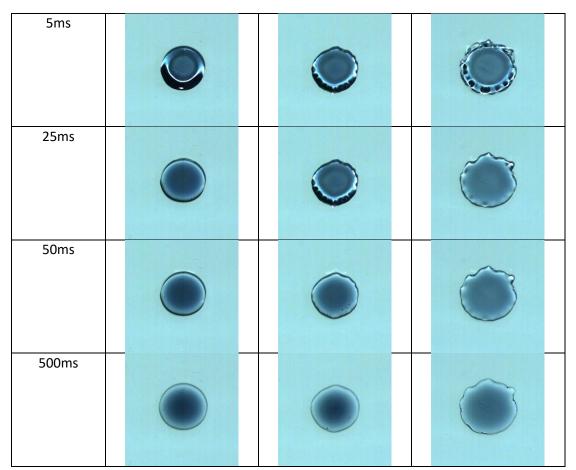


Figure S4. Stage1 – B, IPA-diluted PEDOT: PSS

Stage 1 – C, 50fps

Pristine PEDOT: PSS	Impact velocity		
Time	1.40 m/s	1.98 m/s	2.42 m/s
1s	1.40 111/3	1.56 11/3	2.42 11/3
5s			
10s			
30s			
50s			

Figure S5. Stage1 – C, Pristine PEDOT: PSS

IPA-diluted PEDOT: PSS		Impact velocity	
Time	1.40 m/s	1.98 m/s (to be fixed i.e. replace with the image sequence without substrate edge)	2.42 m/s
1 s			
5s			
10s	A CONTRACTOR OF THE PARTY OF TH		
30s	and the same of th	And the second second	
50s		and the same of th	

Figure S6. Stage1 – C, IPA-diluted PEDOT: PSS

Pristine PEDOT: PSS		Impact velocity	
Time	1.40 m/s	1.98 m/s	2.42 m/s
100s	1.40 m/s	2.36 Hy 3	2.42 11/3
150s			
200s			
250s			
300s			

Figure S7. Stage1 – D, Pristine PEDOT: PSS

IPA-diluted PEDOT: PSS		Impact velocity	
Time	1.40 m/s	1.98 m/s	2.42 m/s
100s			
150s			
200s		0	
250s	0	0	0
300s	0	0	0

Figure S8. Stage1 – D, IPA-diluted PEDOT: PSS

Stage 2: Coalescence of two droplets (work in progress)

Stage 2 – C

Pristine		Impact velocity	
PEDOT: PSS			
Time	1.40 m/s	1.98 m/s	2.42 m/s
1s			
5s			
10s			
30s			
50s			

IPA-diluted PEDOT: PSS	Impact velocity		
Time	1.40 m/s	1.98 m/s	2.42 m/s
1s			
5s			

10s		
30s		
50s		

Stage 2 – D

Pristine PEDOT: PSS	Impact velocity		
Time	1.40 m/s	1.98 m/s	2.42 m/s
100s			
150s			
200s			
250s			
300s			

IPA-diluted PEDOT: PSS	Impact velocity		
	1 40 /	1 00 /	2.42 /
Time	1.40 m/s	1.98 m/s	2.42 m/s
100s			
150s			
200s			
250s			
300s			

Stage 3: Line formation of 8 droplets

Stage 3 – C

Stage 3 – D

Stage 4: Film formation of 64 droplets

Stage 4 – C

Stage 4 – D