



Supplementary Materials

Preparation of Transparent Conductive Electrode via Layer-By-Layer Deposition of Silver Nanowires and Its Application in Organic Photovoltaic Device

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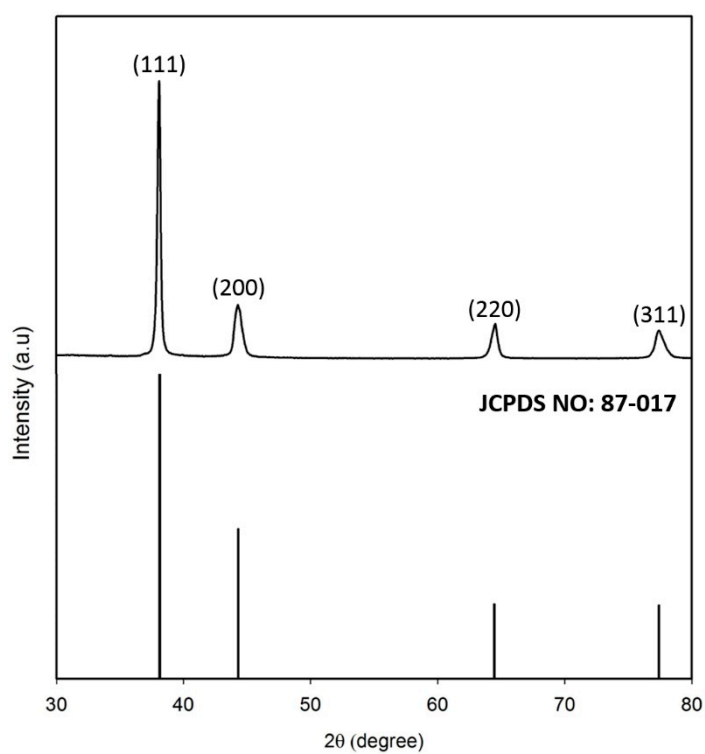


Figure S1. XRD pattern of the silver nanowires.

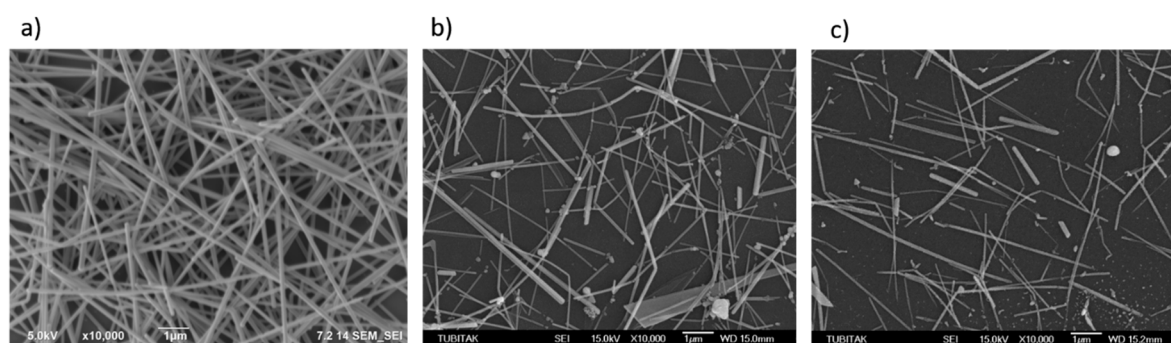


Figure S2. SEM images of 3 bilayer AgNW films a) with PDT, washed and dried, b) without PDT, unwashed and only dried, c) without PDT washed and dried for 3h deposition time.

Table S1. Sheet resistance, optical transmittance and FOM values of LBL assembled AgNW electrodes.

AgNW TCEs	Deposition Time (h)	Number of Bilayer	R_s (Ω/\square)	R_s^a (Ω/\square)	T (%)	FOM
AgNWs (a)	3	3	11	9	71	112
AgNWs (b)	3	3	-	120	86	20
AgNWs (c)	3	3	-	163	88	18

Table S2. Comparison of the sheet resistance, optical transmittance and FOM values of our work with previous literature.

Coating Method	T (%)	Rs ^a (Ω/\square)	FOM	Reference
Dip Coating	85	15	148	[1]
	83	10	193	[2]
	71	9	112	Our Work
Spin Coating	84.84	21.76	98.54	[3]
	89	9.7	323	[4]
	66.25	7.16	116	[5]
	95	16	453	[6]
	93	13	392	[7]
	86	16	150	[8]
	80.4	10.8	151	[9]
	92	9	491	[10]
Spray Coating	83.9	33.2	62	[11]
	67.9	15.15	58	[12]
	83	15	128	[13]
	80.4	10.8	148	[14]
	86	30	80	[15]
	87	11	237	[16]
	89	16.3	196	[17]
	Brush Painting	82	14	74
81.8		26.4	69	[19]
80.48		13.96	114	[20]
<i>Electrohydrodynamic</i> Spray Coating	80	11	145	[21]

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