Supporting Information

Silver nanowire–conducting polymer–ITO hybrids for flexible and transparent conductive electrodes with excellent durability

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Author Contributions

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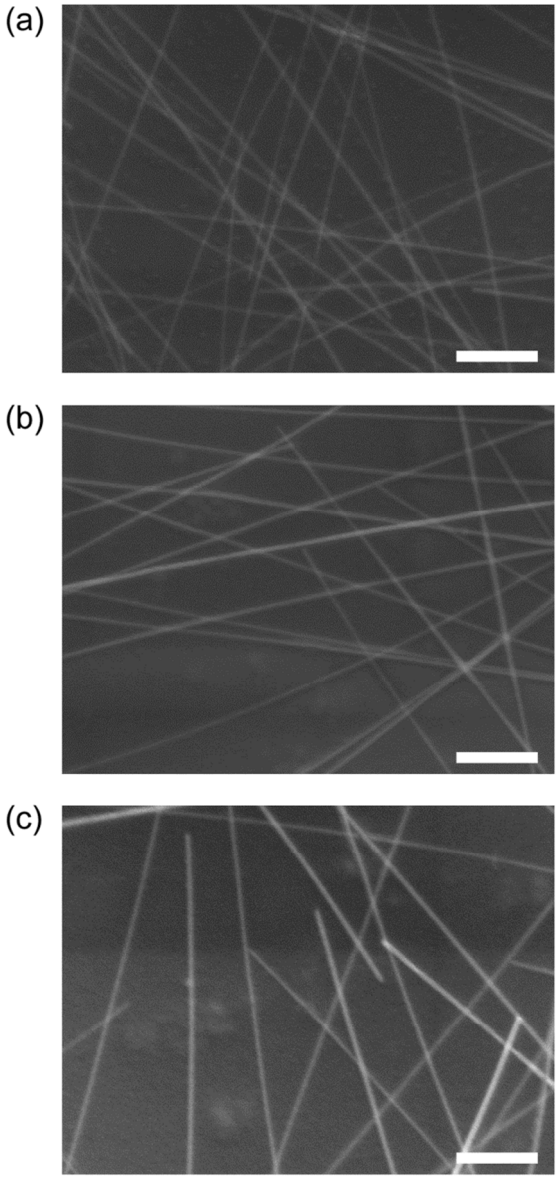

Figure S1. SEM images (scale bar: 500 nm) of the AgNW–PEDOT:PSS composite films depending on the solid weight ratio of PEDOT:PSS to AgNW: (a) 1:2, (b) 1:1, and (c) 3:1. The widths of the AgNWs ranged in 35–45 nm.

Table S1. Comparison of the performance between pristine AgNW, AgNW–PEDOT:PSS, AgNW–ITO, and AgNW–PEDOT:PSS–ITO films.

		Pristine AgNW	AgNW–PEDOT:PSS[a)]	AgNW–ITO[b)]	AgNW–PEDOT:PSS–ITO[c)]
R_S (Ω sq^{-1})		48.3	46.3	44.2	44.4
ΔR (%)		Fail	1.0	2	0.7
H (%)		1.9	1.9	2.0	1.9
T (%)	340 nm	81.9	75.5	74.9	66.3
	450 nm	91.0	88.8	89.5	83.4
	550 nm	91.5	90.2	90.5	89.4
	650 nm	90.6	89.5	90.3	89.2
	740 nm	90.4	89.2	89.8	89.5
R_S after stress (Ω sq^{-1})	Heat	Fail	75.0	43.6	42.7
	Solvent	Fail	48.4	45.3	45.8
	Detergent	Fail	46.9	45.8	46.2
	Salt	Fail	68.5	46.2	42.7

[a)] AgNW : PEDOT:PSS = 1: 2 by solid weight
[b)] A 10-nm-thick ITO layer
[c)] AgNW : PEDOT:PSS = 1: 2 by solid weight & a 10-nm-thick ITO layer