Electronic Supporting Information

Carbon nano-onion-powered optically transparent and economical dye-sensitized solar cells

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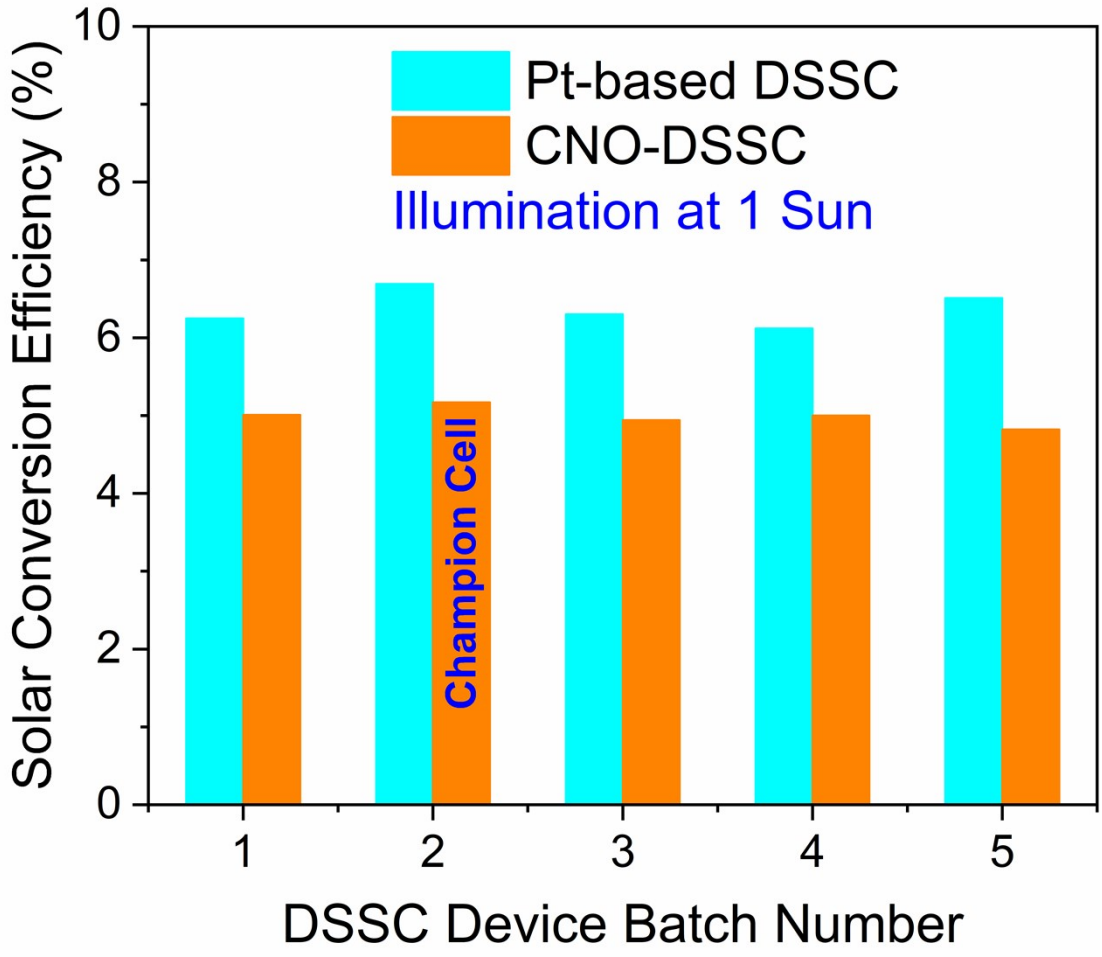

Fig. S1. Solar conversion efficiency chart of each CNO-DSSC device compared with Pt-based DSSC.

Table S1. Detailed performance parameters of **Fig. S1** efficiency chart

Batch No.	Counter Electrode	V_{oc} (mV)	J_{sc} (mA/cm^2)	Fill Factor	Efficiency (%)
Batch 1	Pt	683	13.1	0.69	6.25
	CNO	691	14.4	0.49	5.01
Batch 2	Pt	681	14.1	0.69	6.69
	CNO	701	15.1	0.49	5.17
Batch 3	Pt	683	13.2	0.70	6.30
	CNO	691	14.2	0.50	4.94
Batch 4	Pt	680	12.8	0.69	6.12
	CNO	690	14.6	0.49	5.00
Batch 5	Pt	683	13.6	0.70	6.51
	CNO	679	14.1	0.50	4.82

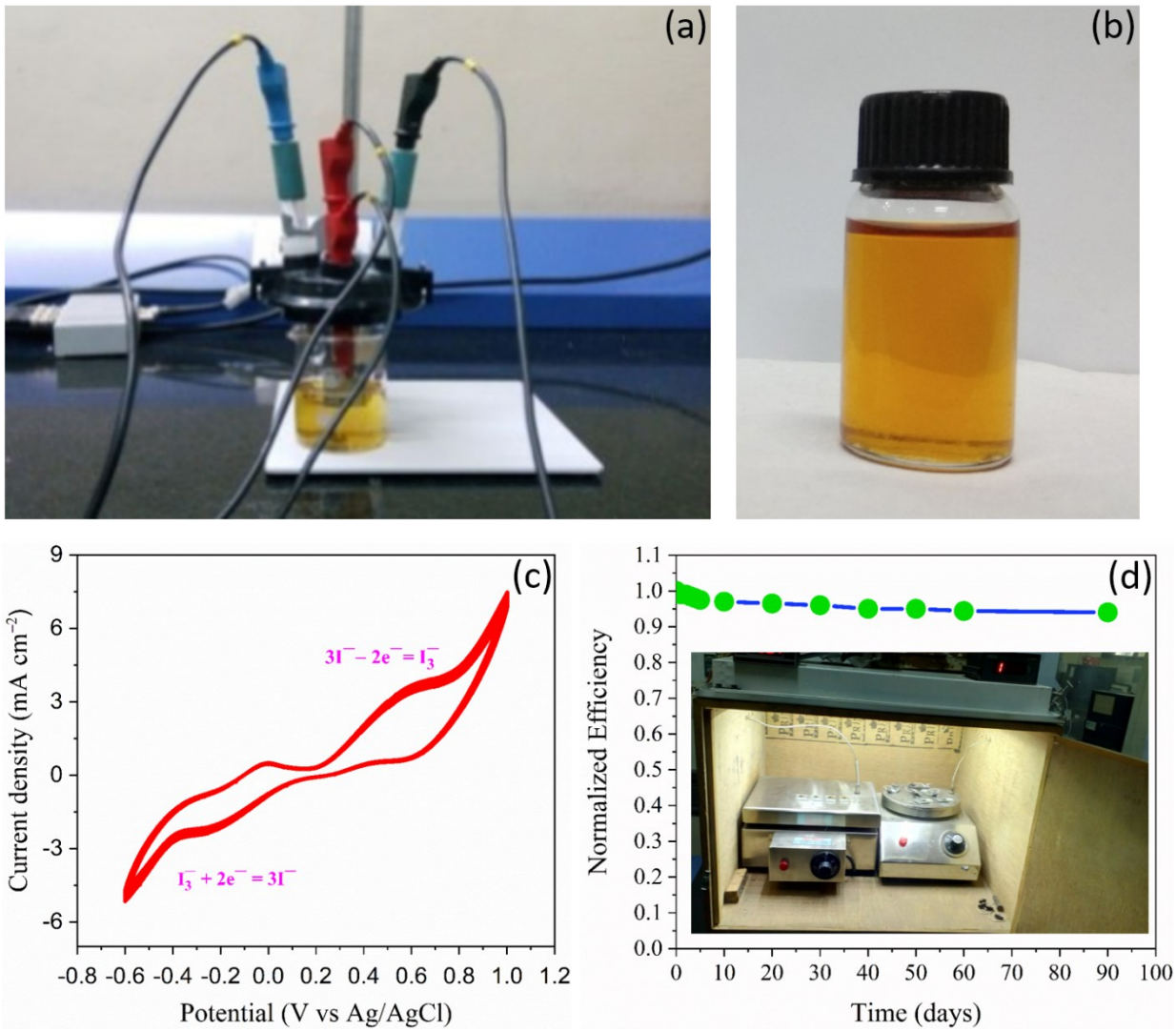

Fig. S2. (a) Digital photograph of used three-electrode configuration, **(b)** A redox electrolyte composed of 0.01 M LiI, 0.001 M I_2, and 0.1 M $LiClO_4$ in acetonitrile, **(c)** CNO-based CE long cyclic stability test, and **(d)** Stability performance of CNO-based complete DSSC cell (inset aging chamber).