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Supporting Information

Benzimidazolium Salt-based Solid-state Electrolytes Afford Efficient Quantum-dot Sensitized Solar Cells

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Figure S1: Photograph of the liquid andsolid-state [DHexBIm][SCN]-based electrolytes.

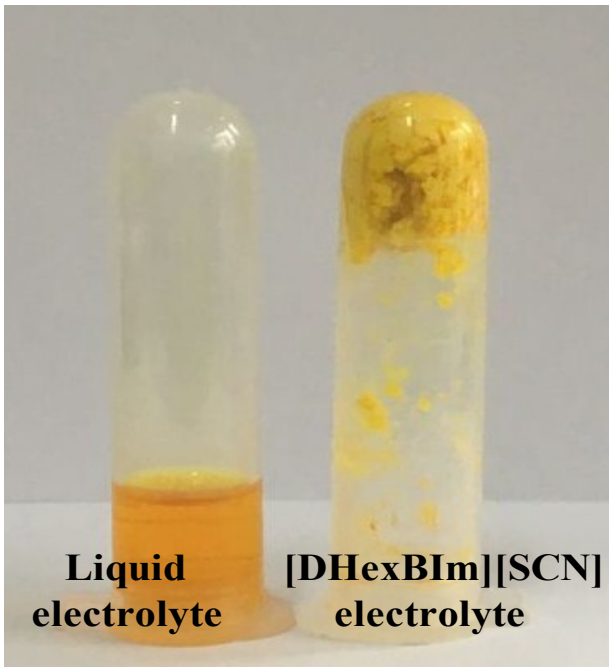

Figure S2: Nyquist plot of device with the liquid electrolyte.

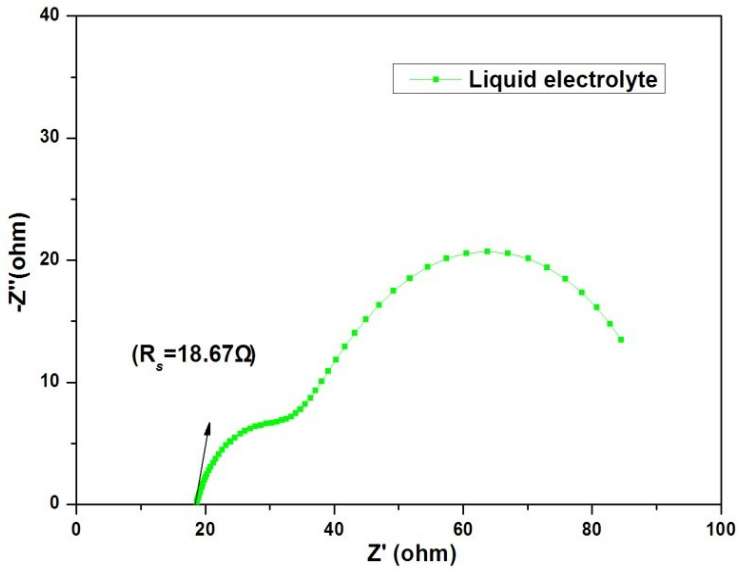

Figure 3 The ideal diode model of QDSSC.

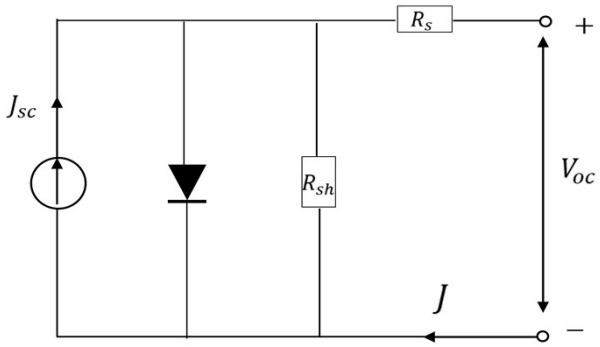

Figure S4: Long-term stability of [DHexBIm][SCN]-based QDSSC.

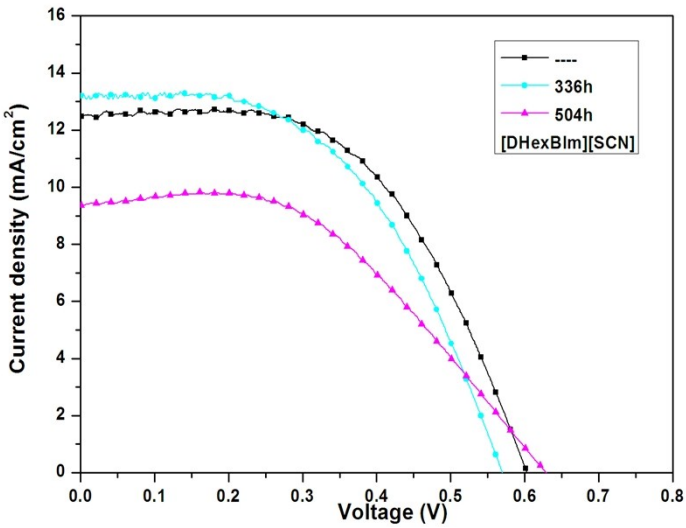

Table S1: Photovoltaic (stability) parameters for the QDSSC with the [DHexBIm][SCN]-based electrolyte.

Time/h	V_{oc}/V	J_{sc}/mA/cm^2	*FF*/%	PCE/%
0	0.6	12.58	56.44	4.26
336h	0.57	13.2	51.57	3.88
504h	0.63	9.36	48.84	2.88