

Supporting Information for

Solvent effects at the photoelectrode/electrolyte interface of a DSC: A combined spectroscopic and photoelectrochemical study

by

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Page S2	Raman Spectra (Fig. S1) and intensities (Fig. S2) of Raman modes under electrical polarization of the DSCs
Page S3	Nyquist plots for DSCs using different solvents (Fig. S3)
Page S4	Electron transit times for DSCs using different solvents (Fig. S4)

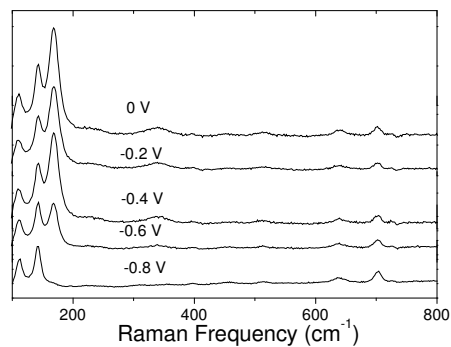


Fig. S1 In situ Raman characterization of the low frequency spectral region for MPN based DSCs by varying the electrical polarization of the cells.

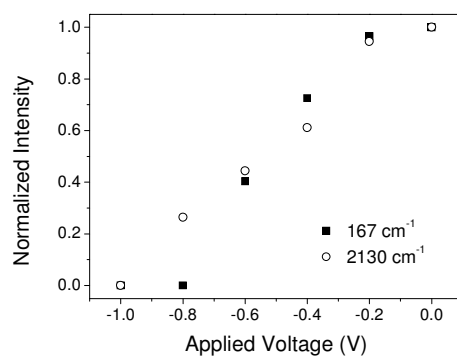


Fig. S2 Normalized intensity of the 167 and 2130 cm^{-1} Raman modes to their maximum intensity value obtained under short circuiting of the DSC containing MPN based electrolyte vs. applied potential.

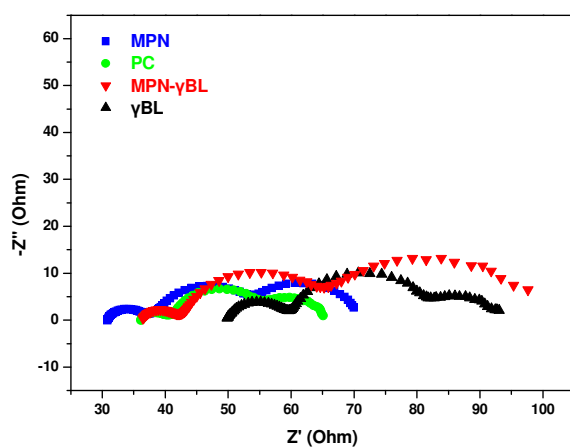


Fig. S3 Nyquist plots derived from EIS spectra on DSCs based on different solvents illuminated under white light illumination (1 sun) at -0.85 V vs. Pt.

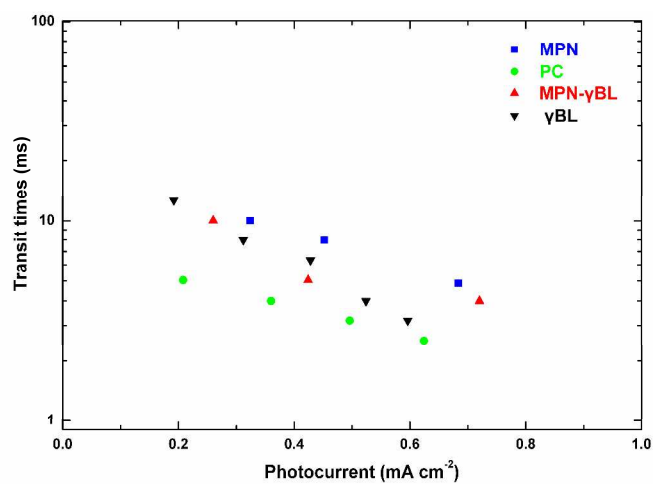


Fig. S4 Electron transit times versus the short-circuit photocurrent (log plot) derived from IMPS experiments on DSCs based on electrolytes using different solvents.