

### Supporting Information for: The mechanism behind the beneficial effect of light soaking on injection efficiency and photocurrent in Dye Sensitized Solar Cells

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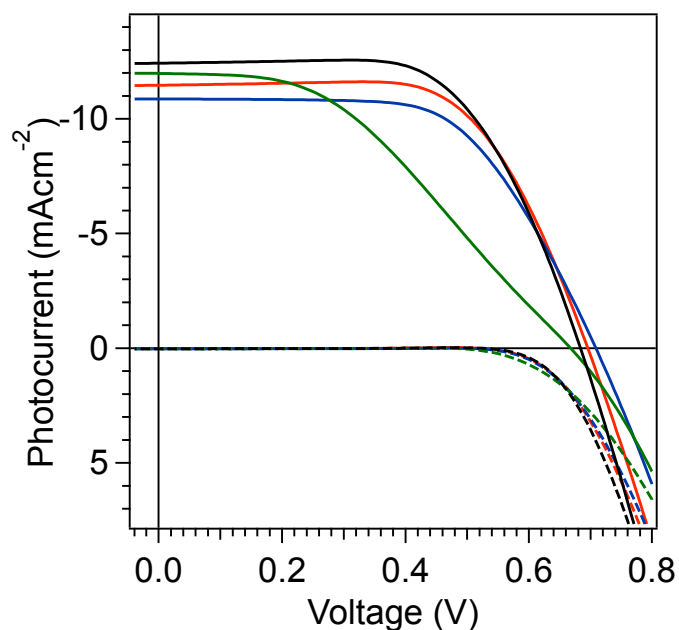


Figure S1. *JV* response of the four 3G solar cells with 2 electrolytes, and two different counter electrodes. The light source was the white LEDs used on the transient set-up described in the experimental section. The flux from the LEDs was set to give  $\leq 5\%$  error with respect to the  $J_{sc}$  measured using an AM1.5 solar simulator. The low fill factor of one cell, due to a poor electrolyte/counter electrode interaction, does not effect the photocurrent as the current plateaus by 0V.

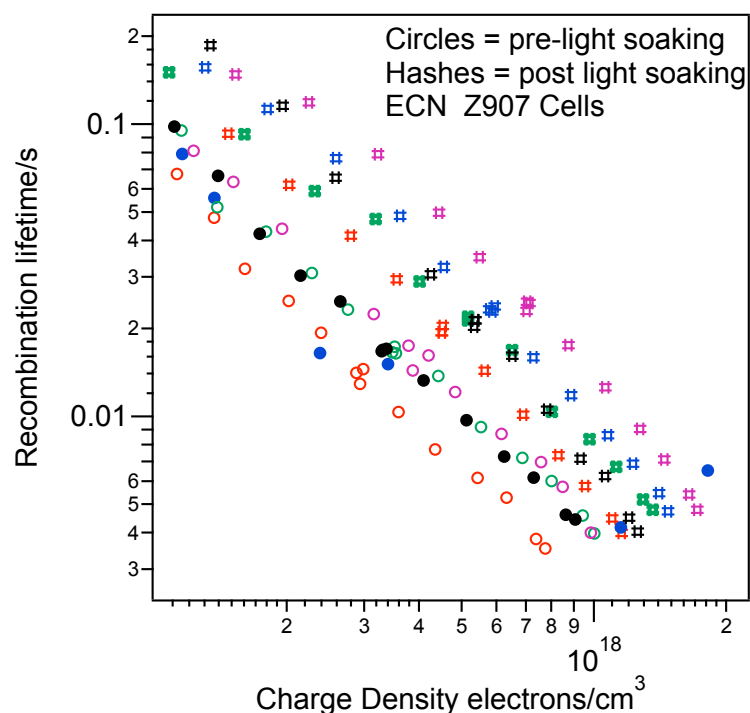


Figure S2. Typical recombination lifetimes at  $V_{oc}$  before and after light soaking. Charge density taken from charge extraction measurements. Lifetimes from small perturbation photovoltage transients. Increase in lifetime is varies between 2 and 4 times.