Supplementary Information:

Poly(styrene-co-acrylonitrile) Gel Electrolyte for Dye-sensitized Solar Cells with Improved Photoelectrochemical Performance

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**Figure S1:** Variation in (a) charge collection efficiency (% $\eta_{cc}$), (b) electron lifetime ($\tau$), (c) ionic conductivity ($\sigma$) and (d) diffusion coefficient values (Dapp) of SAN based PGE.
Figure S2: Effect of variable concentrations of LiI on (a) photovoltaic parameters and (b) photovoltaic performance of SAN based quasi solid-state electrolytes at a given concentration.
Figure S3: Variation in the photovoltaic properties of quasi solid state dye sensitized solar cells for different wt% of SAN based PGE.