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Author Lo Shu Ling
Author's Email Address No Public.
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Abstract
The efficiency of quasi-solid-state dye-sensitized solar cells(DSSCs) has been investigated at different polymer molecular weight. The sol-gel TiO2 colloid was used to prepare the titanium dioxide thin film electrode, and the spin-coating methods used to make the relative electrode, The liquid electrolyte 0.1M LiI, 0.05M I2, 0.5M TBP in acetonitrile (ACN) was dissolved in different molecular weight PUI, acfing as the quasi-solid electrolyte in the DSSCs. The optimal conditions present as follows: 8.10 μm TiO2 film thickness the of solution 10wt%PUI/ACN used as quasi-solid electrolyte, and spin-coated Pt counter-electrode, the dye is the N3 dye. The highest efficiency is about 11.75%.
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