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Charge transfer properties in PVK:PcH₂:C343:C₆₀/π-Si hybrid nanocomposites for photovoltaics

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Highlights

>The optical absorption of PVK was extended with addition of PcH₂ and C343>The PL intensity of PVK:PcH₂:C343:C₆₀ is quenched with progressive addition C₆₀>The PVK:PcH₂:C343:C₆₀ composites reveal high degree of PL quenching, $\eta_c=90.3\%$ >PL quenching of the PVK:PcH₂:C343:C₆₀ composite is more pronounced using π -Si than Si>The PL extinction is due to charge transfer rather than resonance energy transfer>

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