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Al And ZnO TiO Core Shell Nanowire Dye-Sensitized Solar Cells Within The Nanocrystalline Oxide, L_n , Relative To The Thickness Of The Oxide Film, D , Such That $L_n/d > 1$ And $D > R^{-1}$, Where R Is The Wavelength-dependent Absorption Coefficient Of The Sensitized Film. Cell Photocurrent Is Maximized If $L_n > R^{-1}$ For All Absorbed Wavelengths Because Light Harvesting And Carrier Collection Are Then Very Efficient. 2th, 2024 New Triphenylamine-Based Dyes For Dye-Sensitized Solar Cells A Series Of New Conjugated Metal-free Organic Dyes (TC1, TC2, TC3, And TC4) Comprising Triphenylamine ... The Absorption Spectra Of The Dyes In Solution And Adsorbed On TiO₂ Films Were Measured With A Jasco-550 UV/ Vis Spectrophotometer. The Fluorescence Spectra Of The Dyes In 1th, 2024 Review Dye-sensitized Solar Cells M. Grätzel/Journal Of Photochemistry And Photobiology C: Photochemistry Reviews 4 (2003) 145–153 147 Efficiency Of Over 10%, While That Of The Solid-state Device Is, As Yet, Significantly Lower. 3. Historical Background The History Of The Sensitization Of Semiconductors To Light Of Wavelength Longer Than That Corresponding To The Bandgap 2th, 2024.

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