

Time-resolved spectroscopic analysis of the light-energy harvesting mechanism in carbazole-dendrimers with blue-phosphorescent Ir-complex core

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Figures

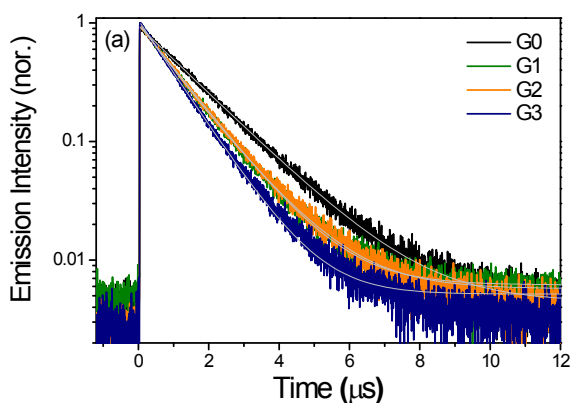


Fig. S1 Decay profiles of **G0-G3** in CH_2Cl_2 at 296 K. $\lambda_{\text{ex}} = 309$ nm. Monitoring wavelength is 480 nm.

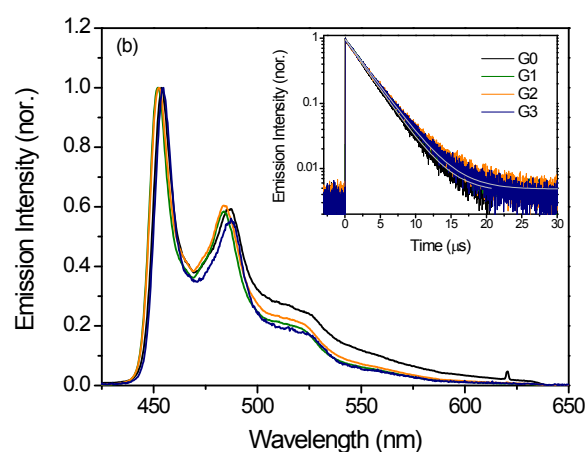


Fig. S2 Phosphorescence spectra of **G0-G3** in MTHF at 77 K, and their decay profiles (inset figure) monitored at 480 nm. λ_{ex} is 309 nm.

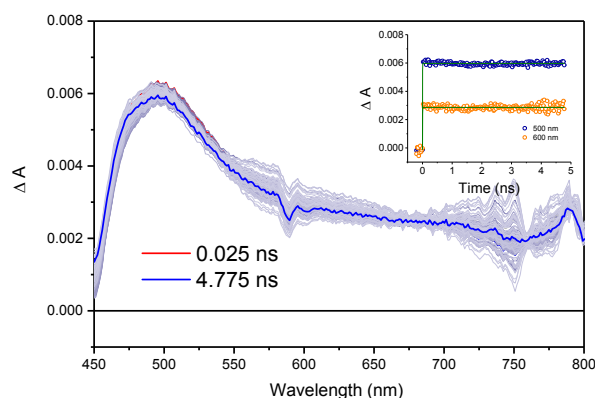


Fig. S3 Transient absorption spectra of **G0** in Ar-saturated CH_2Cl_2 . Excitation wavelength is 310 nm. Inset figure indicates decay profiles monitored at 600 nm (orange circle) and 500 nm (navy-colour circle), green solid lines indicate the fitting values.

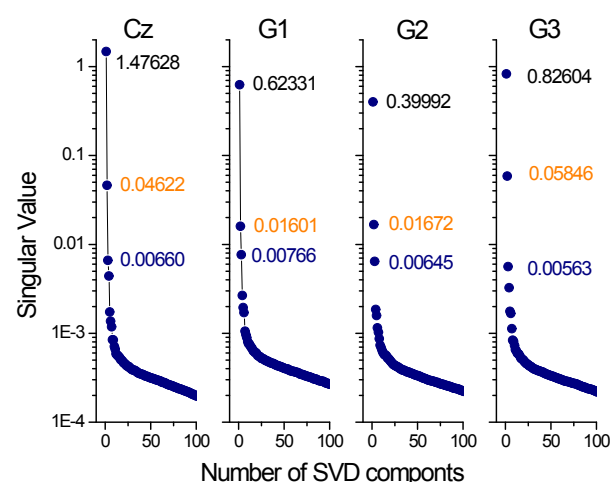


Fig. S4 Singular values decomposed by the SVD analysis. The three largest singular values for **Cz** and **G1-G3** are plotted in spectral and temporal profiles of Fig 5 in main text.