



Tuning energy transfer in switchable donor-acceptor systems

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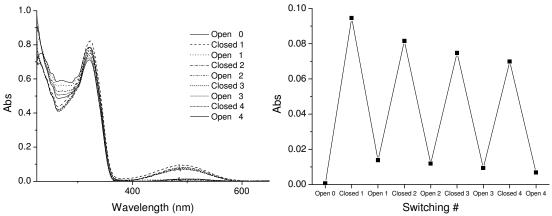
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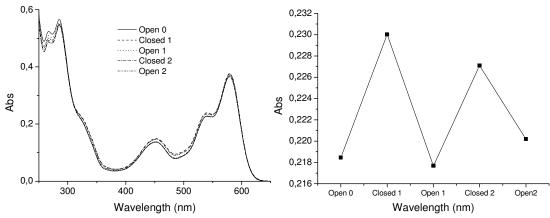
Controlling Energy Transfer in Switchable Donor-Acceptor Systems

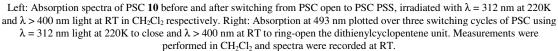
Johannes H. Hurenkamp, Jaap J.D. de Jong, Wesley R. Browne, Jan H. van Esch and Ben L. Feringa

Photochromic switching of CSC 5 and PSC 10 over several cycles

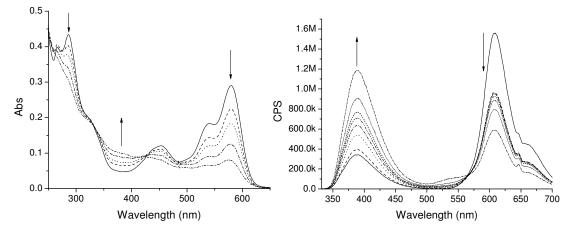


Left: Absorption spectrum of CSC 5 before and after photochemical ring closure ($\lambda_{exc} > 312 \text{ nm}$) and opening ($\lambda_{exc} > 400 \text{ nm}$). Irradiation was carried out at 220 K in CH₂Cl₂. Right: Absorption at $\lambda = 493$ nm plotted against number of times switched.





Effect of irradiation of PSC 10 at $\lambda = 254$ nm



Left: The change in the absorption spectrum of PSC **10** upon irradiation over 20 min with $\lambda = 254$ nm light in CH₂Cl₂ at RT. Right: The change in emission spectra ($\lambda_{ex} = 322$ nm) of PSC **10** by irradiation over 18 min with $\lambda = 254$ nm light in CH₂Cl₂ at RT.