

## Supporting Information

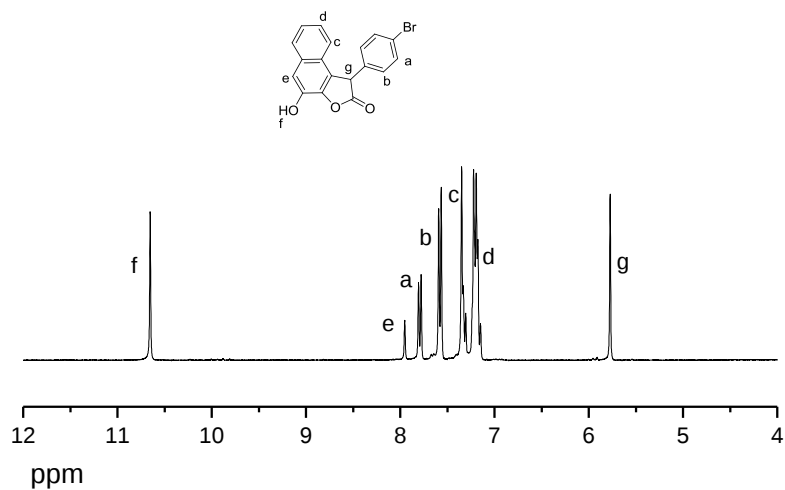
# Comparative study of polymers containing naphthodifuranone and benzodifuranone units in the main chain

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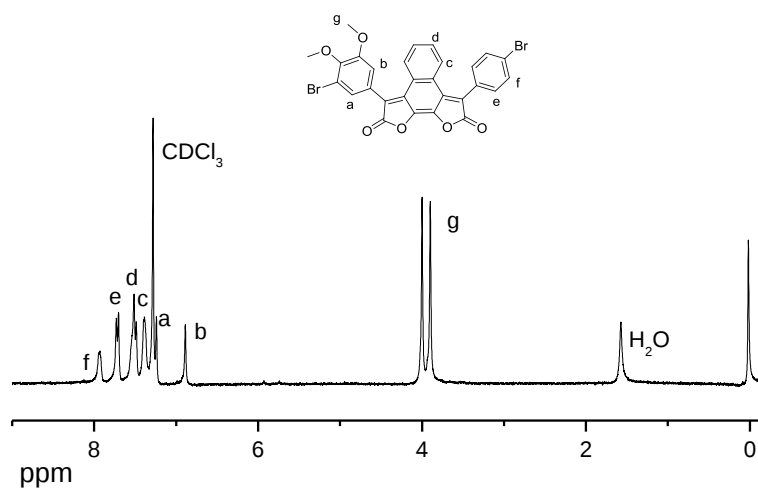
**Figure S1-S3:**  $^1\text{H}$ -NMR spectra of **1**, **M1** and **P2'**.

**Figure S4:** UV-vis absorption spectrum of **M1**.

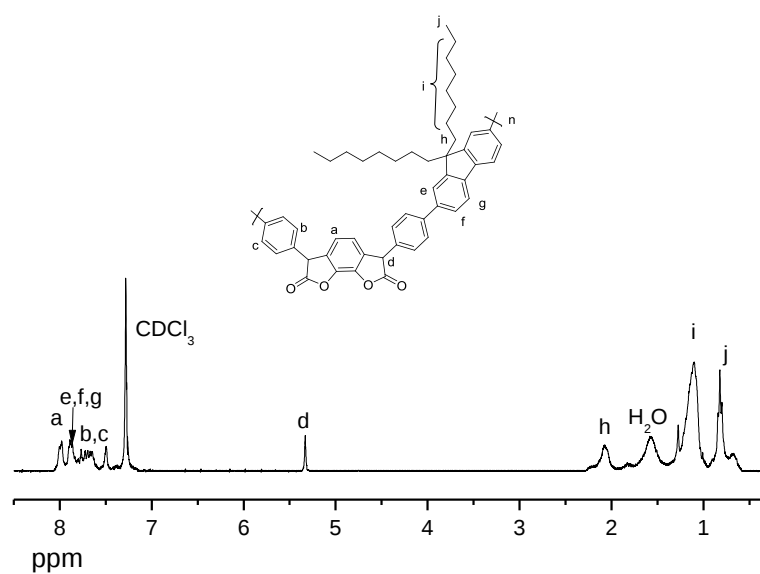
**Figure S5:** UV-vis absorption spectra of **M1** and **M2** before and after irradiation in toluene, and  $\ln(A_t/A_0)$  vs. time plots for determination of rate constants  $k$  for photodecomposition of **M1**, **M2** and **M4**.



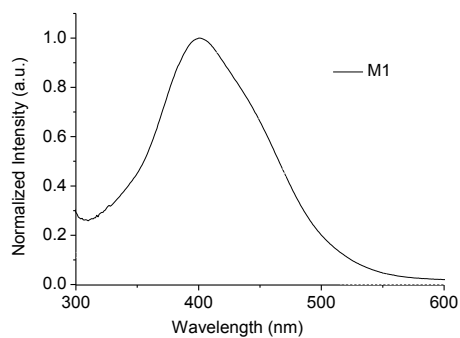
**Figure S1.**  $^1\text{H}$ -NMR spectrum of **1** in  $\text{DMSO-d}_6$ .



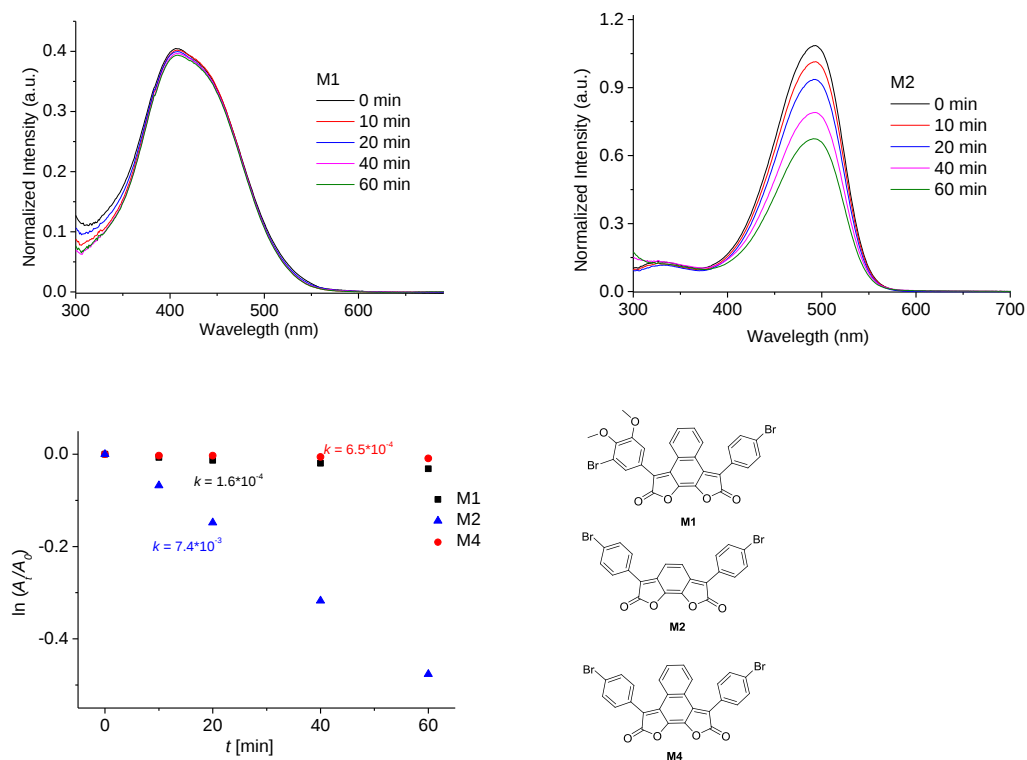
**Figure S2.**  $^1\text{H}$ -NMR spectrum of **M1** in deuterated chloroform.



**Figure S3.**  $^1\text{H}$ -NMR spectrum of **P2'** in deuterated chloroform.



**Figure S4:** UV-vis absorption spectrum of **M1**.



**Figure S5.** UV/Vis absorption spectra of monomers **M1** and **M2** before and after irradiation in toluene with a 200 W Hg-lamp and  $\ln(A_t/A_0)$  vs. time plot for determination of rate constants  $k$  for photodecomposition of **M1**, **M2** and **M3**.