Supporting Information

Dithioketopyrrolopyrrole (DTPP)-Based Conjugated Polymers
Prepared upon Thionation with Lawesson’s Reagent

Irina Welterlich and Bernd Tieke*

Figure S1: $^1$H-NMR spectra of P1, P2 in chloroform-d and of P3 in dichlormethane-d$_2$.

Figure S2: Normalized UV/Vis absorption and fluorescence spectra of P1-P3.
Photographic images of the solutions are also shown.

Figure S3: Cyclic voltammograms of polymers P1-P3.

Figure S4: Change of UV/Vis absorption spectra of TP2 in toluene upon photoillumination with a 200 W Hg-lamp without (a) and with 400 nm-edge filter (b), and plot of $\ln(A_t/A_0)$ vs. time for determination of rate constants $k$ (c). Photographic images of the solution before and after photoirradiation are shown in (a).

Figure S5: Change of UV/Vis absorption spectra of P2 in toluene upon photoillumination with a 200 W Hg-lamp without 400 nm-edge filter (a), and plot of $\ln(A_t/A_0)$ vs. time for determination of rate constant $k$ (b). Photographic images of the solution before and after photoirradiation for 180 and 720 min are shown in (c).
Figure S1: $^1$H-NMR spectra of P1, P2 in dichloromethane-d$_2$ and of P3 in chloroform-d.
**Figure S2**: Normalized UV/Vis absorption and fluorescence spectra of P1-P3.

Photographic images of the solutions are also shown.
Figure S3: Cyclic voltammograms of polymers P1-P3.
Figure S4: Change of UV/Vis absorption spectra of TP2 in toluene upon photoillumination with a 200 W Hg-lamp without (a) and with 400 nm-edge filter (b), and plot of ln(A/\text{A}_0) vs. time for determination of rate constants $k$ (c). Photographic images of the solution before and after photoirradiation are shown in (a).
**Figure S5:** Change of UV/Vis absorption spectra of P2 in toluene upon photoirradiation with a 200 W Hg-lamp without 400 nm-edge filter (a), and plot of \( \ln(A_t/A_0) \) vs. time for determination of rate constant \( k \) (b). Photographic images of the solution before and after photoirradiation for 180 and 720 min are shown in (c).