

## Supporting Information

### Octaarylsubstituted Si(IV) Porphyrazine and Corrolazine: Synthesis by Complexation Method and Formation of $\mu$ -Oxo Dimers

DOI: 10.6060/mhc256939r

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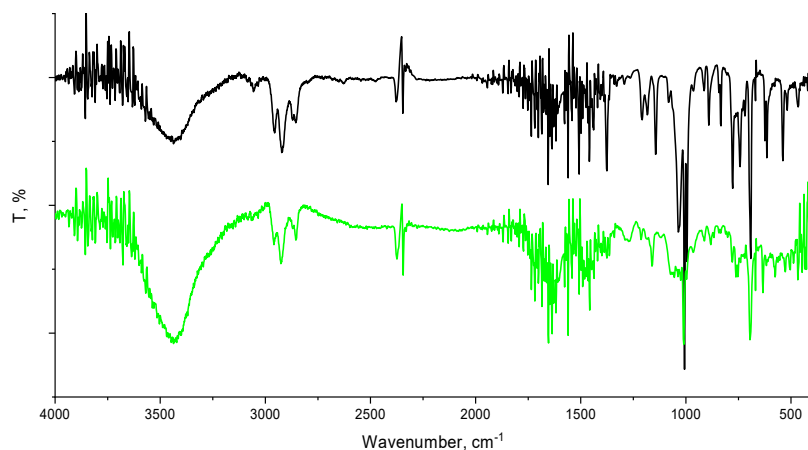


Figure S1. IR spectra (KBr pellet) of  $(\text{Bu}_3\text{SiO})\text{SiCzPh}_8$  (green) and  $(\text{Bu}_3\text{SiO})_2\text{SiPzPh}_8$  (black)

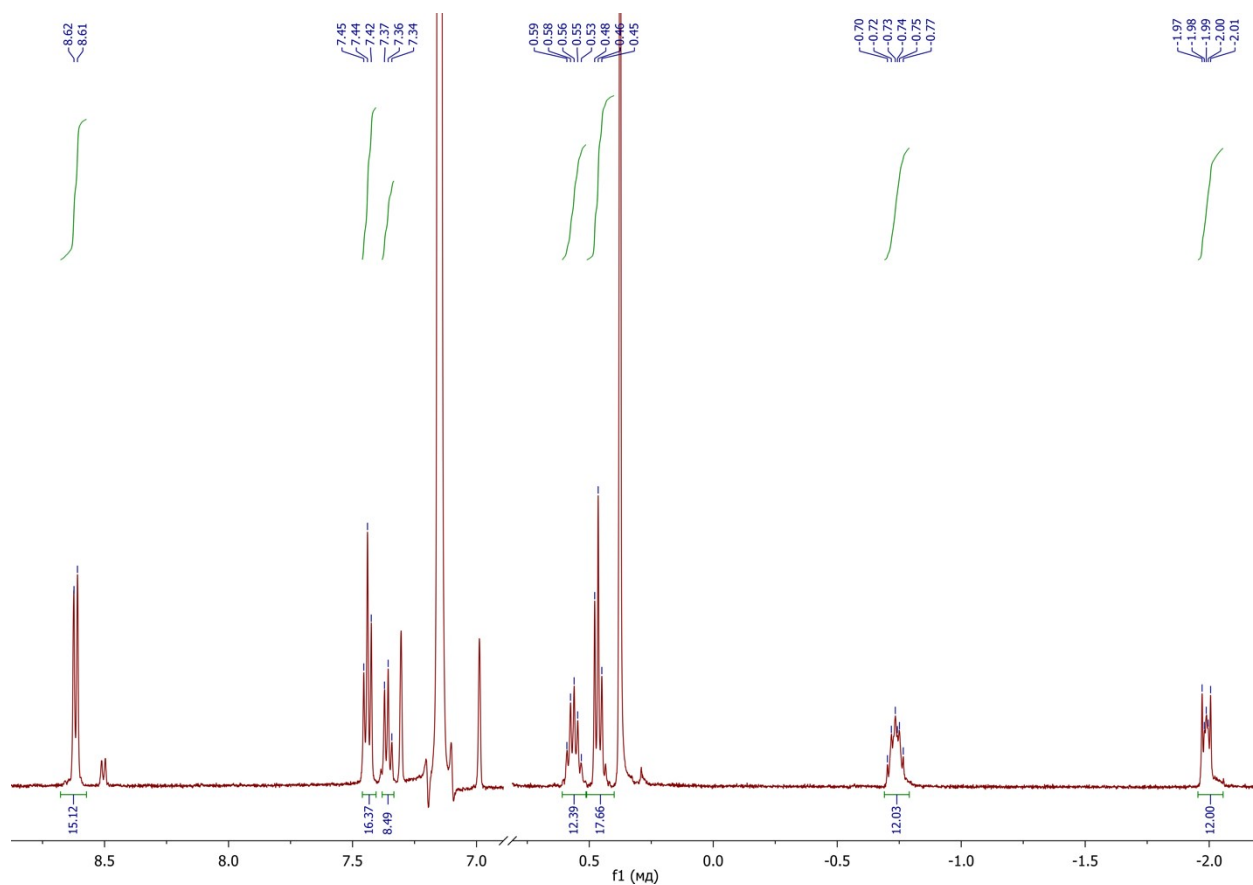
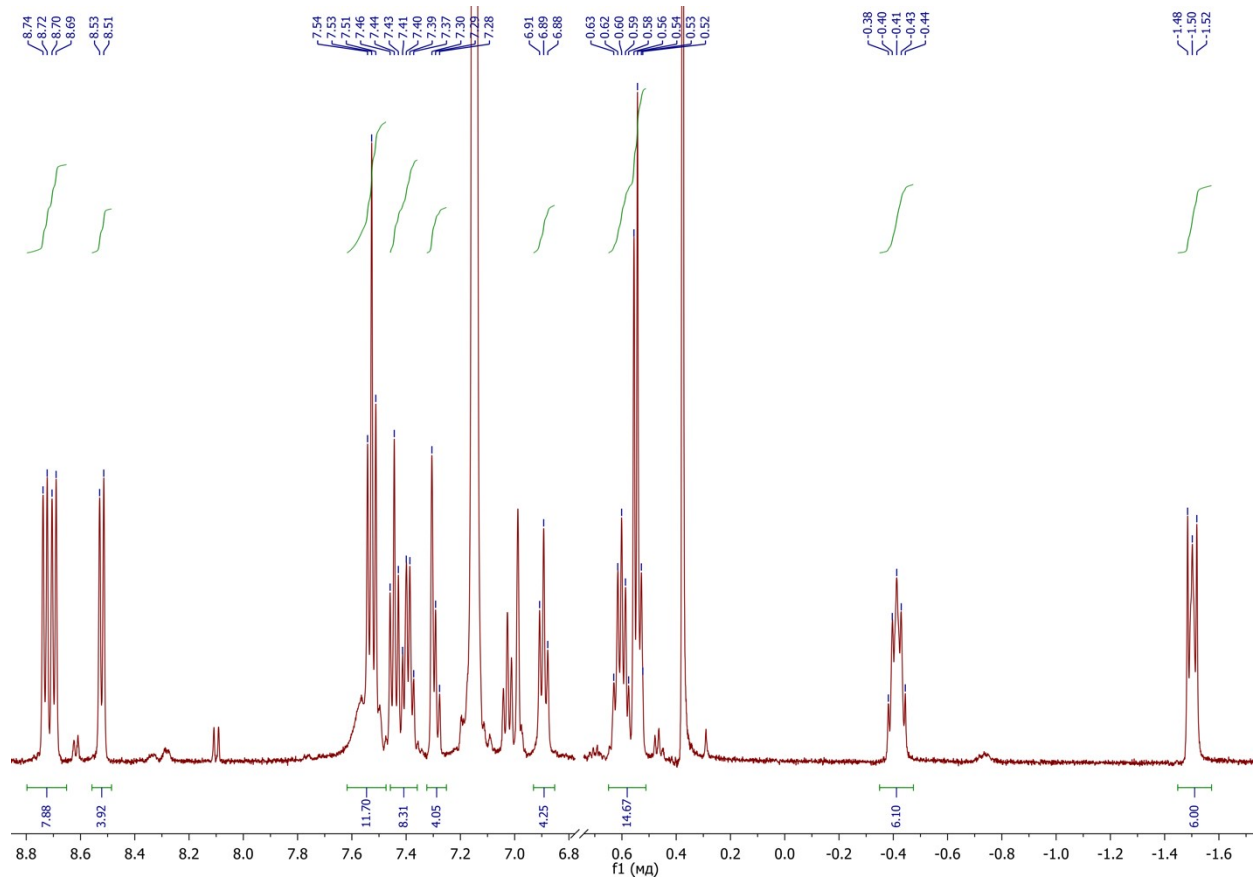
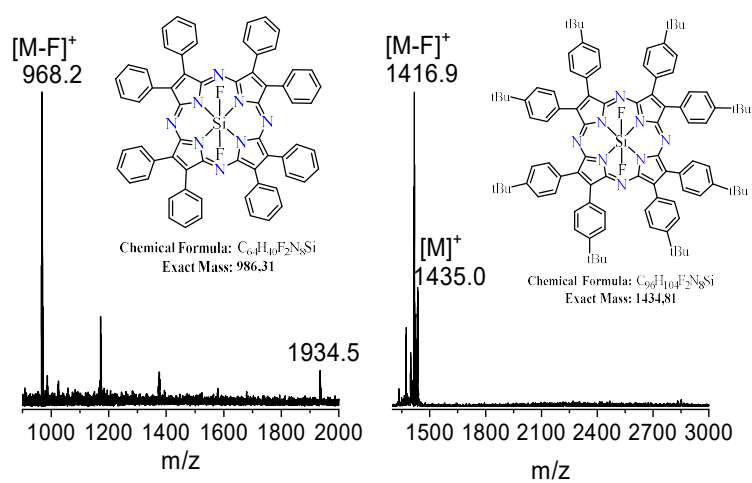


Figure S2.  $^1\text{H}$  NMR spectrum of  $(\text{Bu}_3\text{SiO})_2\text{SiPzPh}_8$  in benzene- $\text{d}_6$ .



**Figure S3.**  $^1\text{H}$  NMR spectrum of  $(\text{Bu}_3\text{SiO})\text{SiCzPh}_8$  in benzene- $\text{d}_6$ .



**Figure S4.** LDI-TOF mass-spectra of  $\text{F}_2\text{SiPzPh}_8$  and  $\text{F}_2\text{SiPz}(\text{tBuPh})_8$

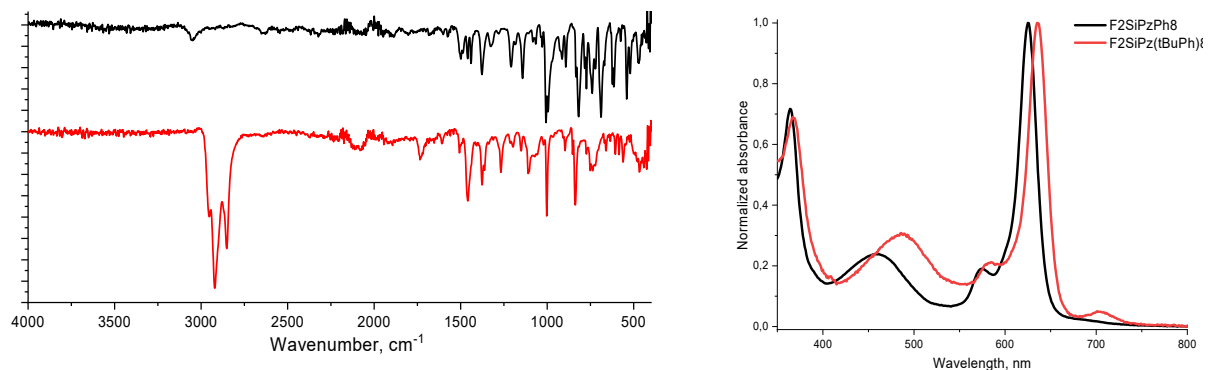


Figure S5. IR (left) and UV-vis (right) spectra for compounds after fluorination of  $(\text{HO})_2\text{SiPzPh}_8$  (black line) and  $(\text{HO})_2\text{SiPz}(\text{tBuPh})_8$  (red line).

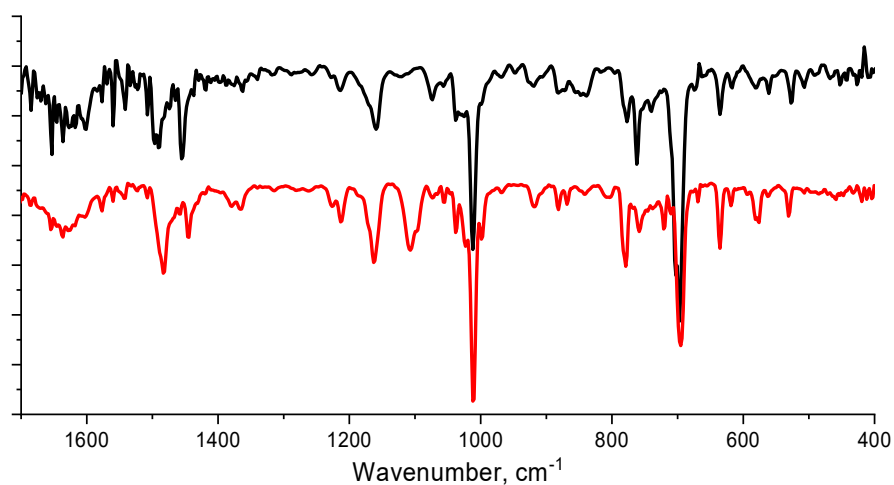
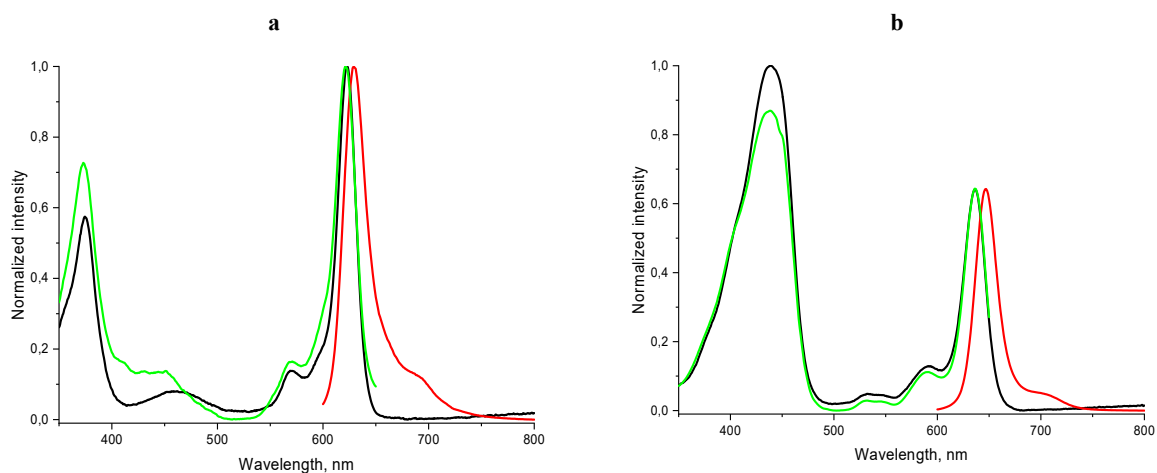


Figure S6 . IR spectra (KBr) of  $(\text{F})\text{SiCzPh}_8$  (black line) and  $\mu\text{-O}[\text{SiCzPh}_8]$  (red line).



**Figure S7.** Normalized absorption (black), fluorescence emission (red) and excitation (green) spectra of  $(\text{Bu}_3\text{SiO})_2\text{SiPzPh}_8$  (a) and  $(\text{Bu}_3\text{SiO})\text{SiCzPh}_8$  (b) in DMF;  $\lambda_{\text{ex}} = 590 \text{ nm}$ ,  $\lambda_{\text{em}} = 660 \text{ nm}$ .

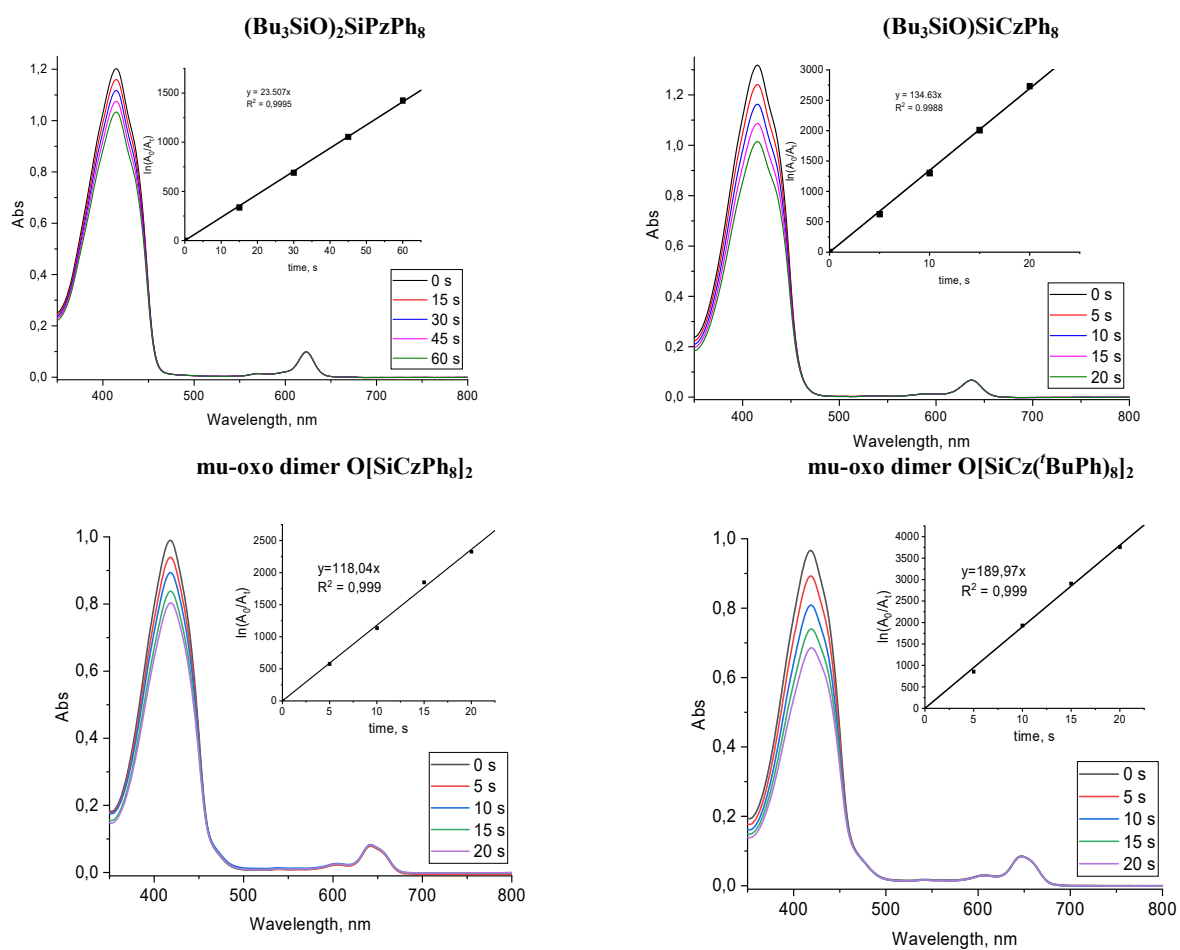


Figure S8. The changes of absorption spectra upon irradiation time in air saturated DMF (for monomers) or toluene (for dimers) solution containing DPBF and the photosensitizer (Si(IV) complex). Insets: logarithmic dependencies of absorbance on irradiation time at 415 nm.