

Supplementary Information

for

Anomalous Reactivity of Radical Cations Produced by Photosensitized Oxidation of Benzyl Alcohol Derivatives: Role of the Sensitizer.

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Fig. S1 Stern-Volmer plots for the fluorescence quenching of $\text{NMQ}^+\text{BF}_4^-$ by **1a** (○), **1b** (△), **1c** (●) and **1d** (▲) in air-equilibrated CH_2Cl_2 .

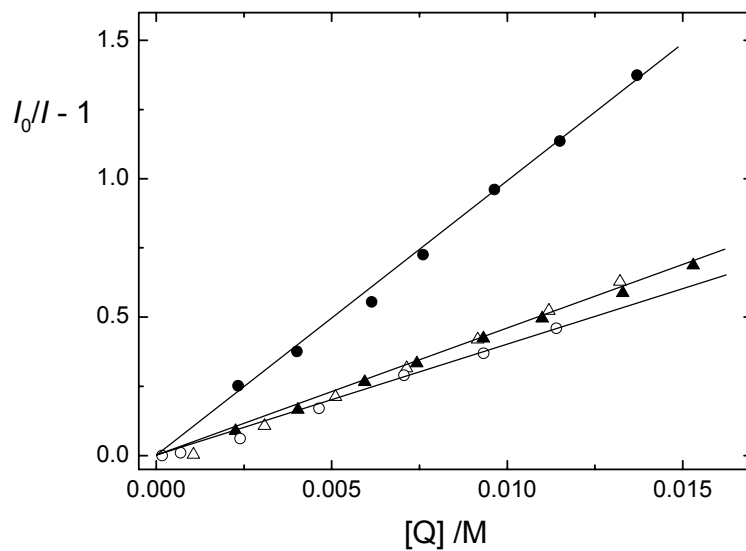


Fig. S2 Stern-Volmer plots for the fluorescence quenching of DCA by **1a** (○), **1b** (△), **1c** (●) and **1d** (▲) in air-equilibrated CH_2Cl_2 .

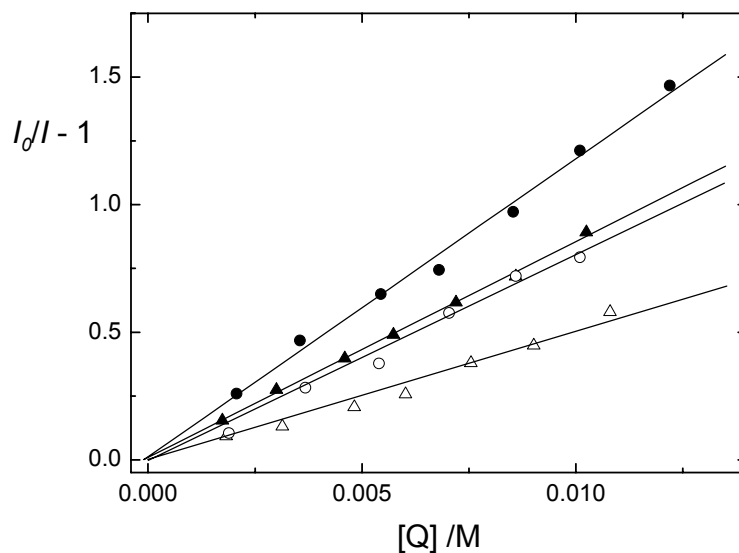


Fig. S3 Time-resolved absorption spectra of the $\text{NMQ}^+\text{BF}_4^-$ (2.6×10^{-3} M)/toluene (1 M)/ AnCH_2OH (1.0×10^{-2} M) system in air-equilibrated CH_2Cl_2 recorded 0.08 (Δ), 1.0 (\blacktriangle) and 6.3 (\circ) μs after the laser pulse. $\lambda_{\text{exc}} = 355$ nm.

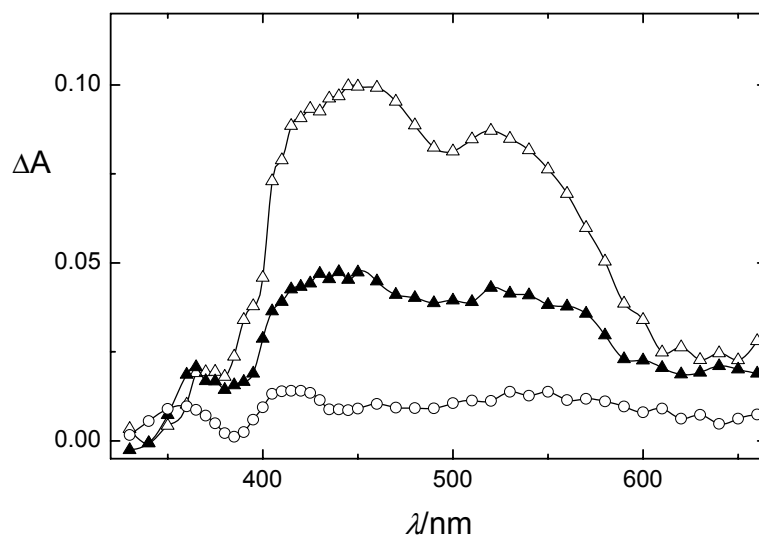


Fig. S4 Rise kinetics of the cation An_2CH^+ , generated by photolysis of the $\text{NMQ}^+\text{BF}_4^-$ (2.6×10^{-3} M)/toluene (1 M)/ An_2CHOH system, recorded in air-equilibrated CH_2Cl_2 at 510 nm with alcohol concentration 0.0046 (A), 0.01 (B) and 0.025 (C) M. $\lambda_{\text{exc}} = 308$ nm.

