

Supporting Information for article

Protonation of *meso*-Tetraphenylporphyrin and Its β -Functionalized Derivatives by Photogenerators of Acidity in Toluene and Polymer Film

Valerii F. Traven,^{a@1} Nuno M. M. Moura,^{b@2} Svetlana B. Scachkova,^a M. Amparo F. Faustino,^b El Mostapha Rakib,^c José A. S. Cavaleiro,^b Sergei M. Dolotov,^a Ivan V. Ivanov,^a Dmitrii A. Cheptsov,^a and M. Grazia P. M. S. Neves^b

^aD. Mendeleev University of Chemical Technology of Russia, 125047 Moscow, Russian Federation

^bQOPNA and LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal

^cLaboratory of Organic and Analytic Chemistry, Faculty of Sciences and Techniques Sultan Slimane University BP 523, 2300 Beni-Mellal, Morocco

@¹Corresponding author E-mail: valerii.traven@gmail.com

@²Corresponding author E-mail: nmoura@ua.pt

Протонирование мезо-тетрафенилпорфирина и его β -производных фотогенераторами кислотности в толуоле и в полимерной пленке

В. Ф. Травень,^{a@1} Н. М. М. Моуря,^{b@2} С. Б. Скачкова,^a М. А. Ф. Фаустино,^b Эль Мостафа Ракиб,^c Дж. А. С. Кавалейро,^b С. М. Долотов,^a И. В. Иванов,^a Д. А. Чепцов,^a М. Г. Р. М. С. Невес^b

^aРоссийский химико-технологический университет им. Д.И. Менделеева, 125047 Москва, Россия

^bQOPNA и LAQV-REQUIMTE, Кафедра химии, Университет Авеи́ру, 3810-193 Авеи́ру, Португалия

^cЛаборатория органической и аналитической химии, Факультет науки и техники университета султана Мулаи Слимана BP 523, 2300 Бени-Меллаль, Марокко

@¹E-mail: valerii.traven@gmail.com

@²E-mail: nmoura@ua.pt

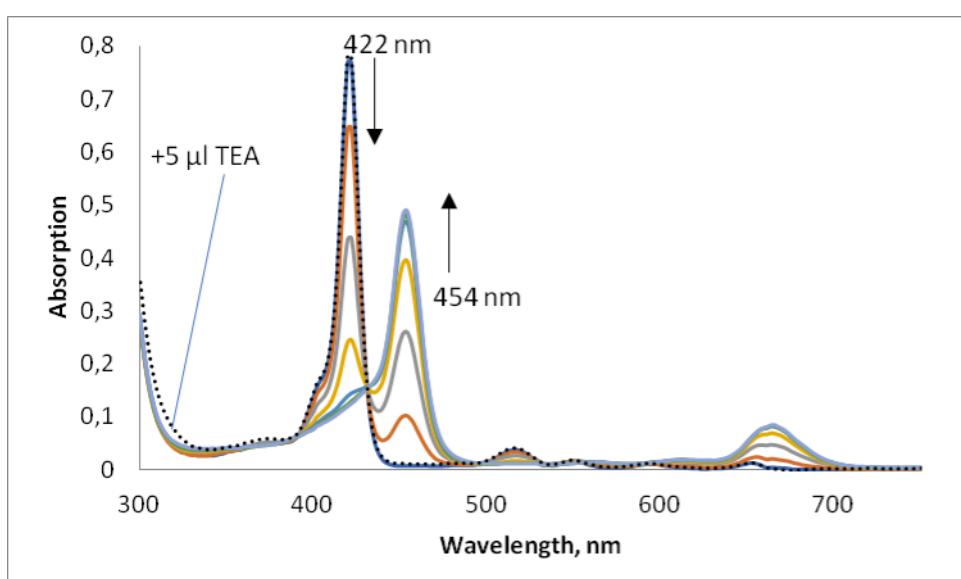


Figure S1. Absorption spectra of **1-H** during irradiation in toluene with 2,2,2-tribromoethanol (dotted line – absorption spectrum after triethylamine addition at the end of irradiation).

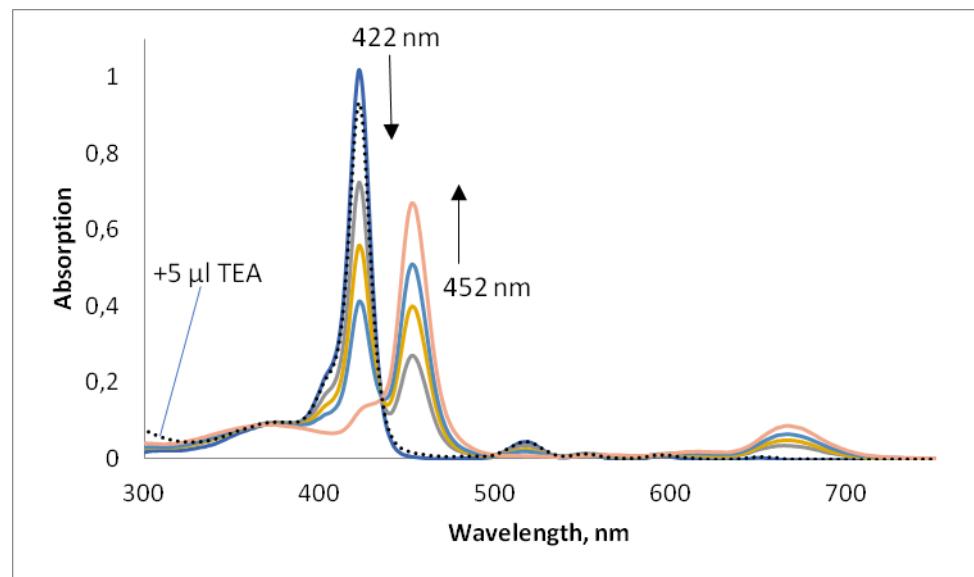


Figure S2. Absorption spectra of **3a-H** during irradiation in toluene with hexachloroethane (8 s) (dotted line – absorption spectrum after triethylamine addition at the end of irradiation).

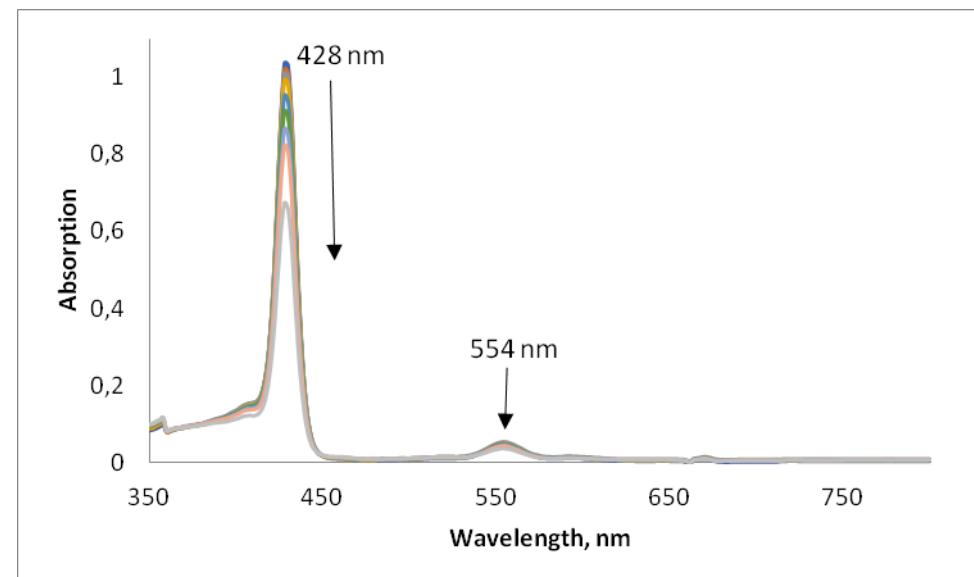


Figure S3. Absorption spectra of **3b-Zn** during irradiation in toluene with 2,2,2-tribromoethanol (240 s).

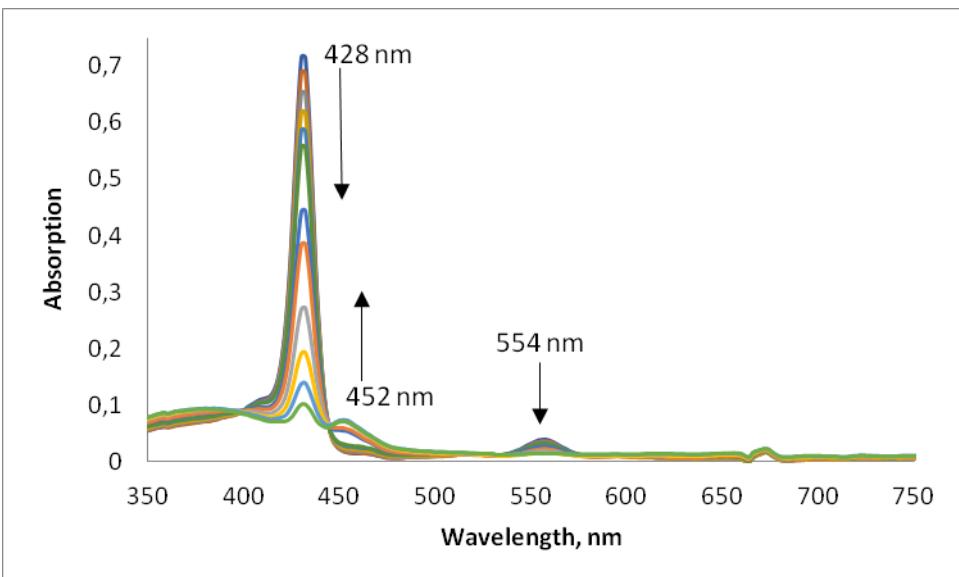


Figure S4. Absorption spectra of **3b-Zn** during irradiation in toluene with HCE (5 mg/ml, 10 s).

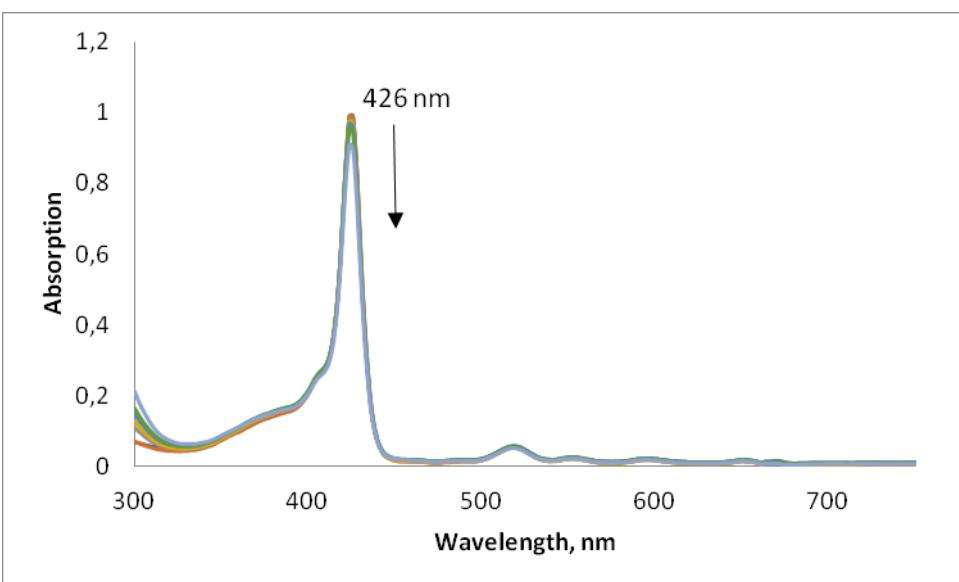


Figure S5. Absorption spectra of **3b-H** during irradiation in toluene (240 s).

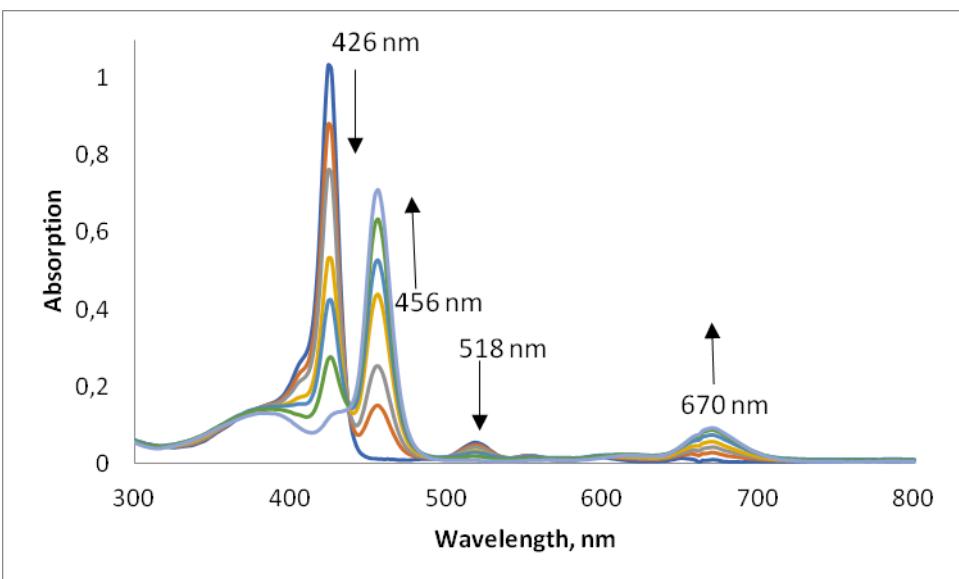


Figure S6. Absorption spectra of **3b-H** during irradiation in toluene with HCE (5 mg/ml, 4 s).

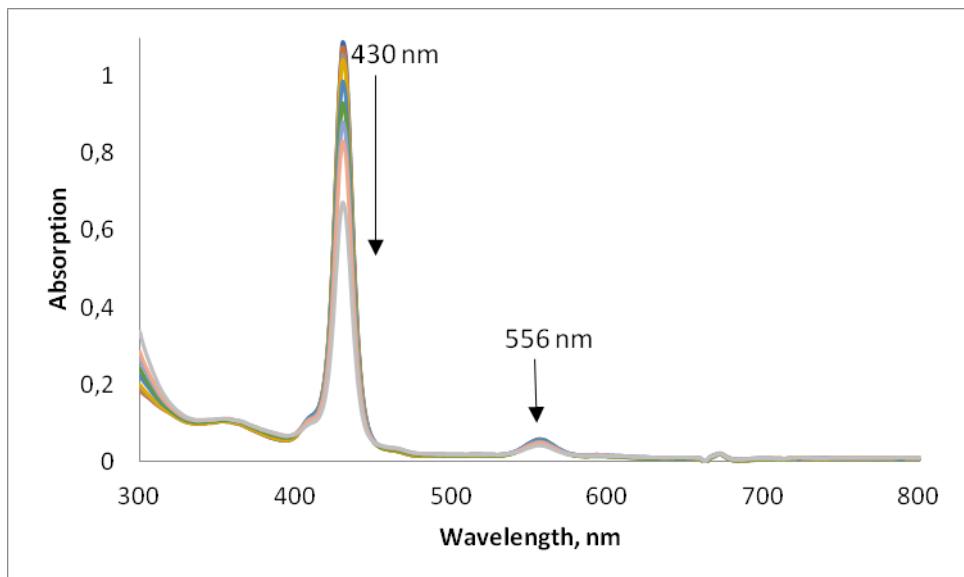


Figure S7. Absorption spectra of **3c-Zn** during irradiation in toluene (240 s).

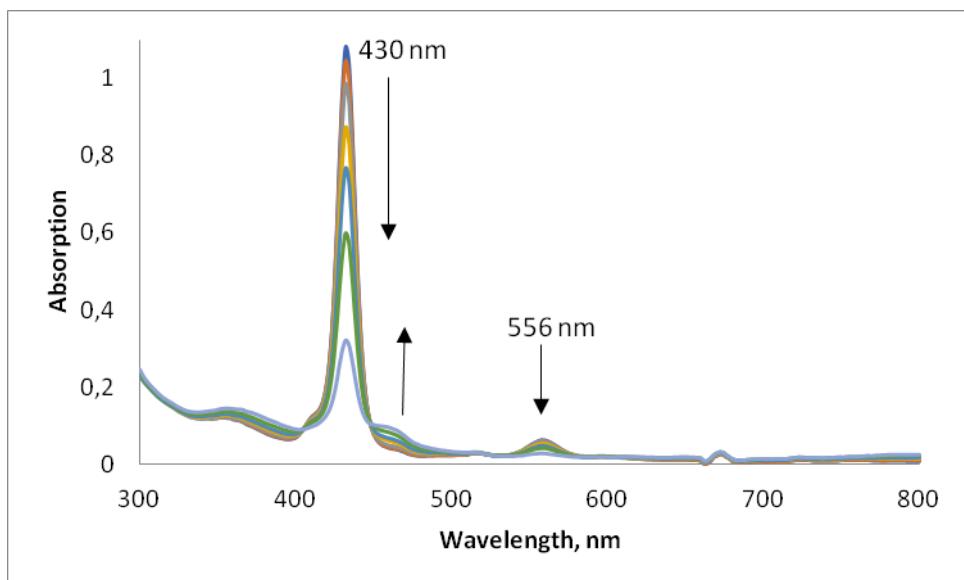


Figure S8. Absorption spectra of **3c-Zn** during irradiation in toluene with HCE (5 mg/ml, 10 s).

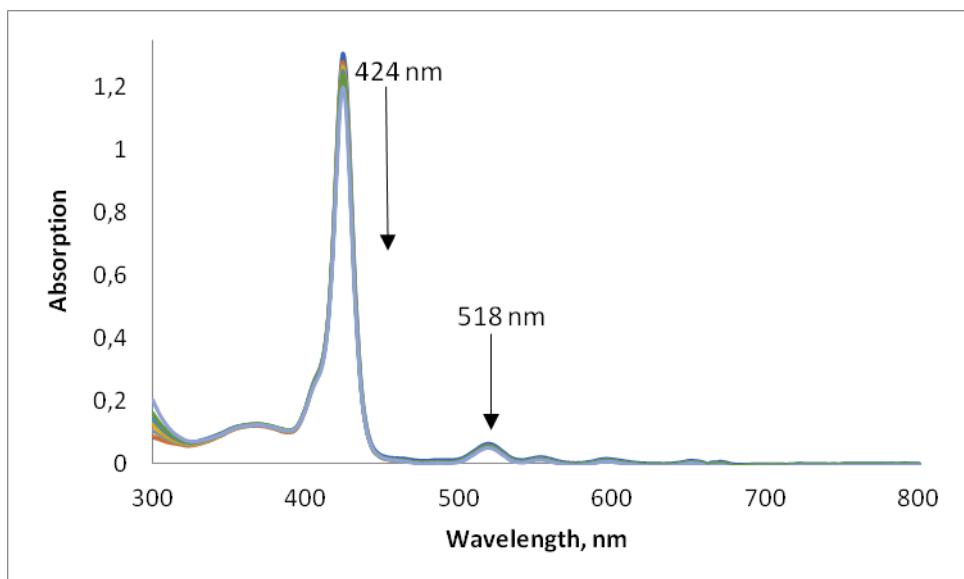


Figure S9. Absorption spectra of **3c-H** during irradiation in toluene (240 s).

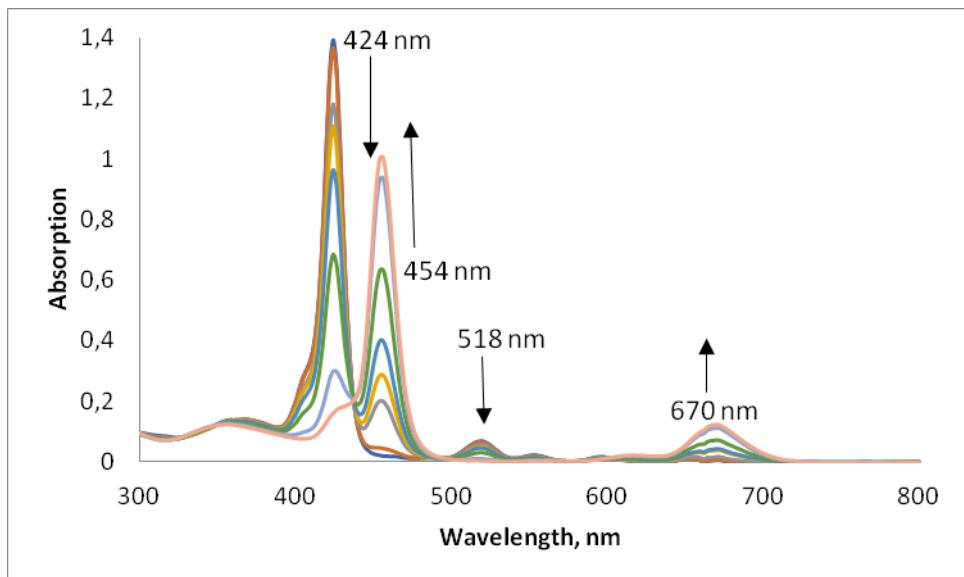


Figure S10. Absorption spectra of **3c-H** during irradiation in toluene with HCE (5 mg/ml, 7 s).