

Supporting information

Dimerization of heavy atom free tetraphenylethylene with aggregation induced emission for boosting photodynamic therapy

Jianjiao Chen^{†a}, Zhenyuan Zou^{†a}, Zhen Ke^a, Xujing Zhang^a, Jingfei Feng^a, Jing Yi^a, Long Peng^a, Jie Yang^{*b}, Yansong Dai^{*c}, Dengfeng Zou^{*a}

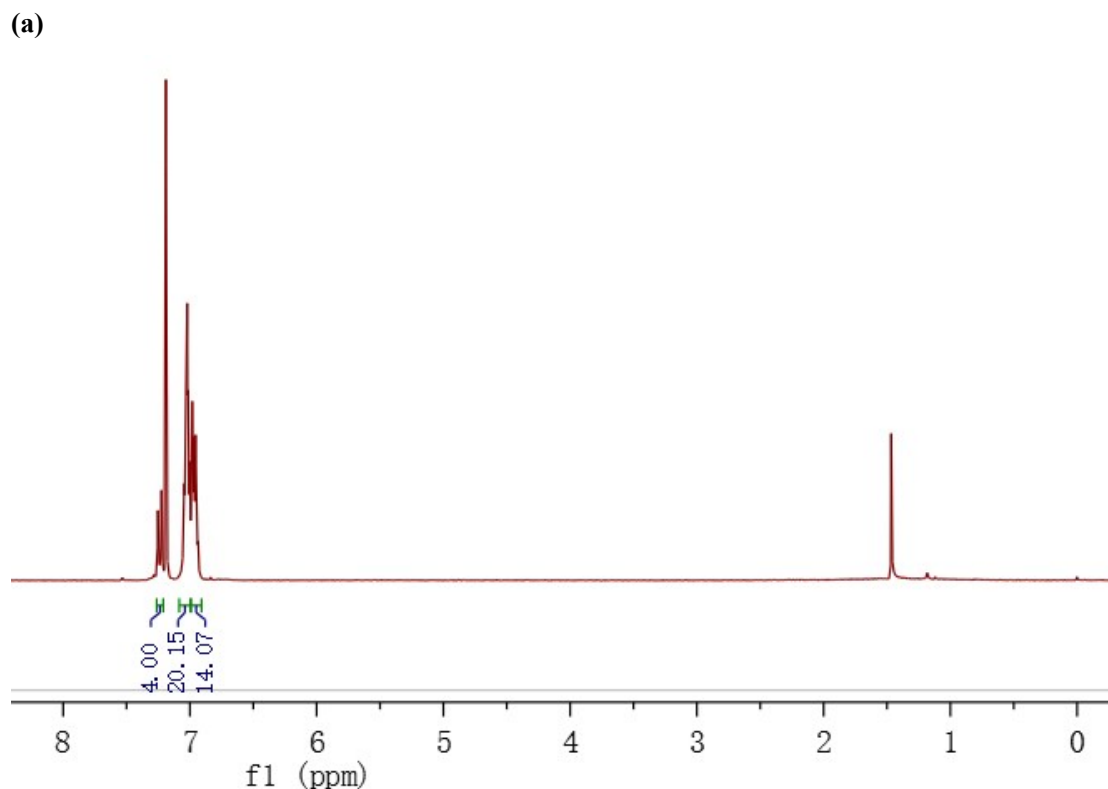
a. School of Pharmacy, Guilin Medical University, Guilin 541004, Guangxi, P.R.

China, Email: zdf1226@126.com Tel: +86-18907732411, Fax: +86-512-52251842

b. Department of Materials Engineering, Changshu Institute of Technology, 215500, Changshu, Jiangsu, China. jieryang@cslg.edu.cn

c. Virginia University of Integrative Medicine, Fairfax, 22031, Virginia, USA.
Email: daiyansong@gmail.com

[†]: These authors contribute equally



(b)

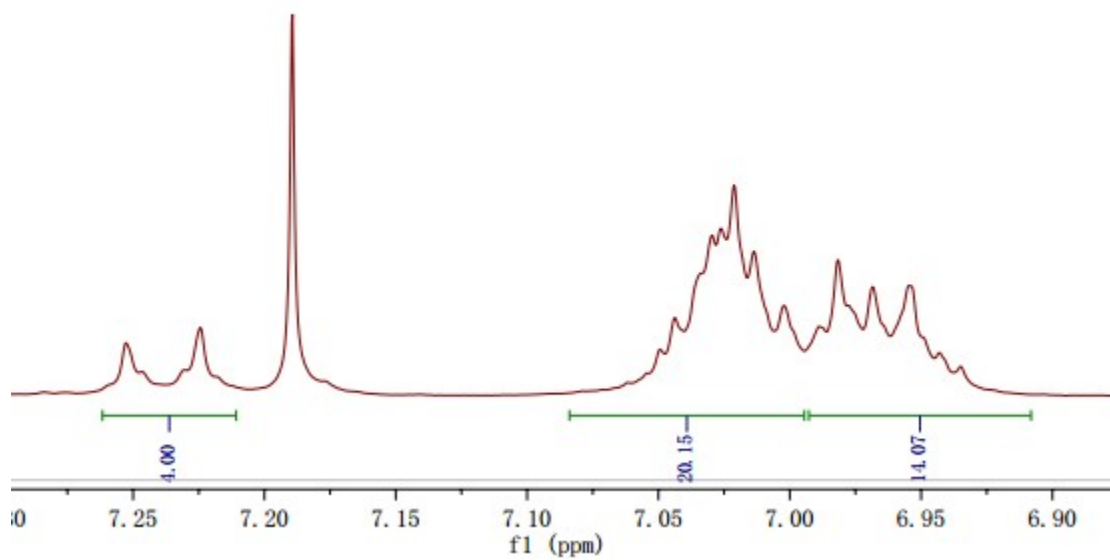


Figure S1 ¹H NMR spectrum of **BTPE** in CDCl₃

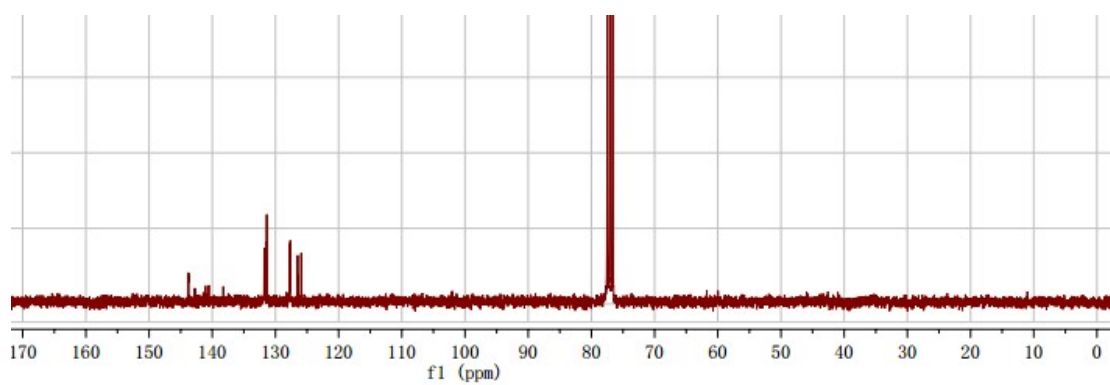


Figure S2 ¹³C NMR spectrum of **BTPE** in CDCl₃

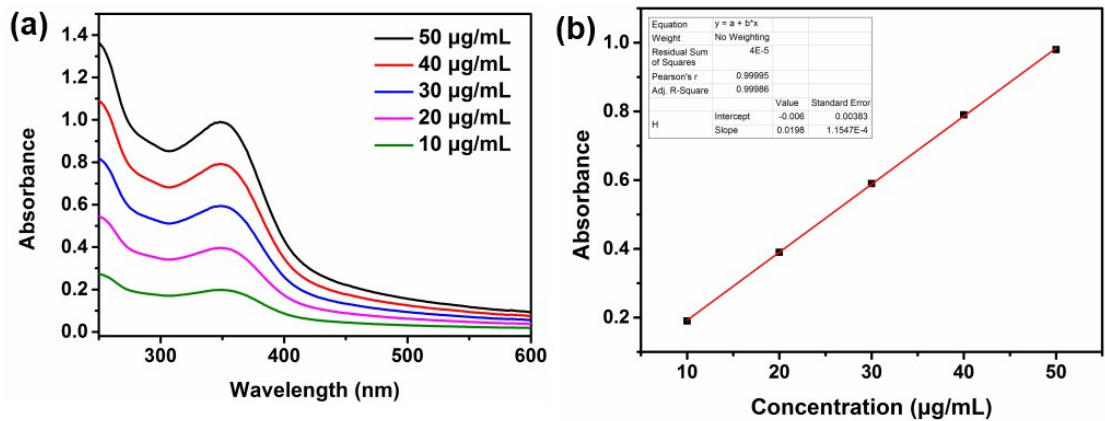


Figure S3 (a) Absorbance spectra of **BTPE** NPs in water with different concentrations; (b) Linear fitting of the absorbance.

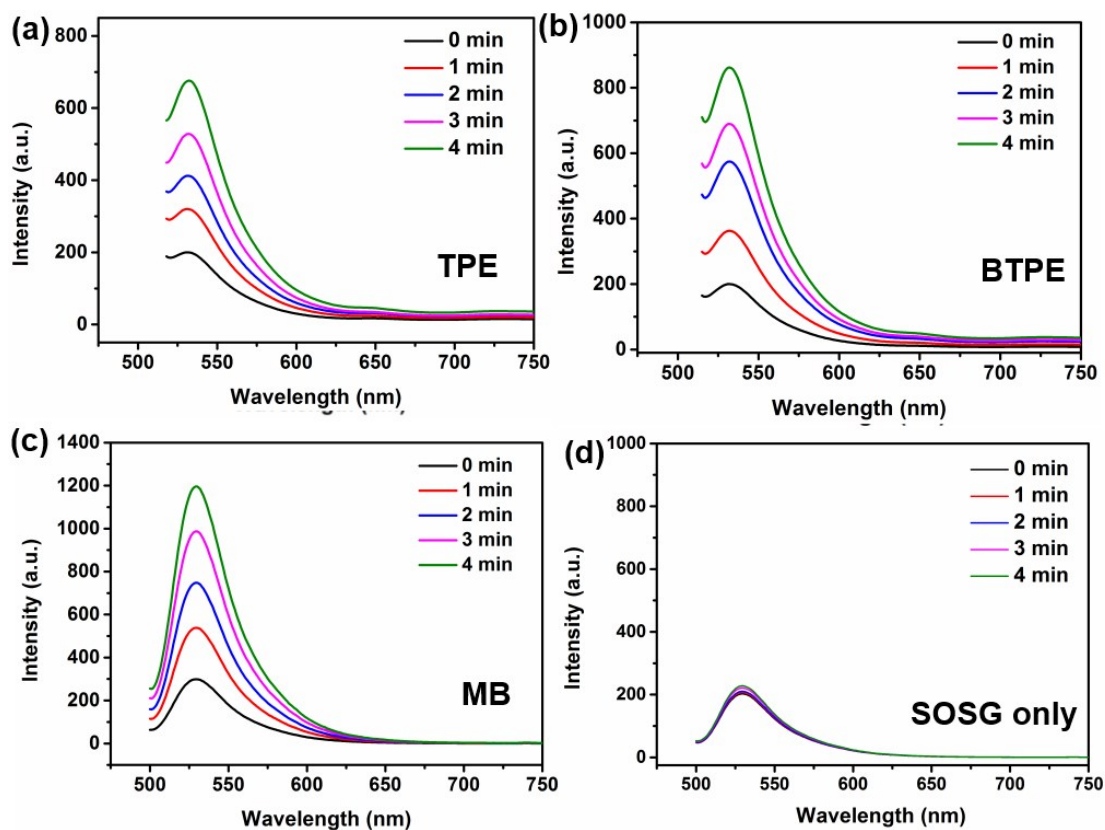


Figure S4 Fluorescence enhancement of SOSG in the presence of (a) **TPE** NPs; (b) **BTPE** NPs; (c) **MB** and (d) none with irradiation.

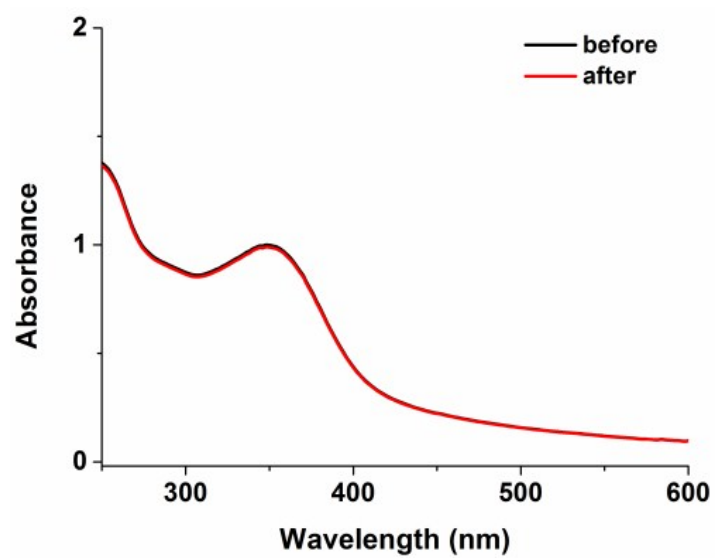


Figure S5 Absorbance spectra of **BTPE** NPs before and after irradiation.