Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B. This journal is © The Royal Society of Chemistry 2018

Supporting information

A Zeolitic Imidazolate Framework-8 Based Indocyanine Green Theranostic

Agent for Infrared Fluorescence Imaging and Photothermal Therapy

Tianzheng Wang,^{‡a} Siqi Li,^{‡a} Zhen Zou,^b Luo Hai,^a Xue Yang,^a Xin Jia,^a Anman

Zhang,^a Dinggeng He,^a Xiaoxiao He*^a and Kemin Wang*^a

State Key Laboratory of Chemo/Biosensing and Chemometrics, College of Biology,

College of Chemistry and Chemical Engineering, Key Laboratory for Bio-

Nanotechnology and Molecular Engineering of Hunan Province, Hunan University, Changsha 410082 (China)

^a Address correspondence to these authors at: State Key Laboratory for Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan University, Changsha, 410082, P. R. China. *E-mail: <u>kmwang@hnu.edu.cn; xiaoxiaohe@hnu.edu.cn;</u> Fax: +86 731 88821566; Tel: +86 731 88821566.

^b School of Chemistry and Biological Engineering, Changsha University of Science and Technology, Changsha, Hunan 410004, P. R. China.



Fig. S1 Hydrodynamic diameters of ICG@ZIF-8 NPs.



Fig. S2 Powder images of ZIF-8 NPs and ICG@ZIF-8 NPs.



Fig. S3 Zeta potential of ICG@ZIF-8 NPs.



Fig. S4 (A) ICG loading in ICG@ZIF-8 NPs which were prepared with adding ICG of different concentration. (B) Temperature changes of ICG@ZIF-8 NPs with different ICG loadings under NIR laser irradiation (780 nm at 2.0 W cm⁻², 15 min).



Fig. S5 Cell viability of NIR laser irradiation (780nm, 10 min) with different power densities.



Fig. S6 The specificity response of ICG@ZIF-8 NPs (0.5 mg mL⁻¹) under different media (0.1 M each, for BSA: 1 mg mL⁻¹, PBS: 10 mM).