Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.

Supporting Information

Facile preparation of versatile Gadolinium-chelated protein nanocomposite for T1 magnetic resonance imaging guided photodynamic and photothermal synergetic therapy

Pei Liu,‡[a] Hongyi Zheng,‡[b,c] Zhe Yang,[a] Li Ba,[b] Wei Zhu,[a] Leping Lin,[a] Yuxuan Xiong,[a] Zushun Xu*[a] and Jinghua Ren*[b]

[a] Hubei Collaborative Innovation Center for Advanced Organic Chemical Materials; Ministry of Education Key Laboratory for the Green Preparation and Application of Functional Materials, Hubei University, Wuhan, Hubei 430062, China
[b] Cancer Center, Union Hospital, Tongji Medical College of Huazhong University of Science and Technology, Wuhan, Hubei 430030, China.
[c] The First Clinical Medical college of Gannan Medical University, Ganzhou, 341000, China.
* Corresponding author.
** Corresponding author.
E-mail addresses: zushunxu@hubu.edu.cn (Z. Xu), jhrenmed@hust.edu.cn (J. Ren)

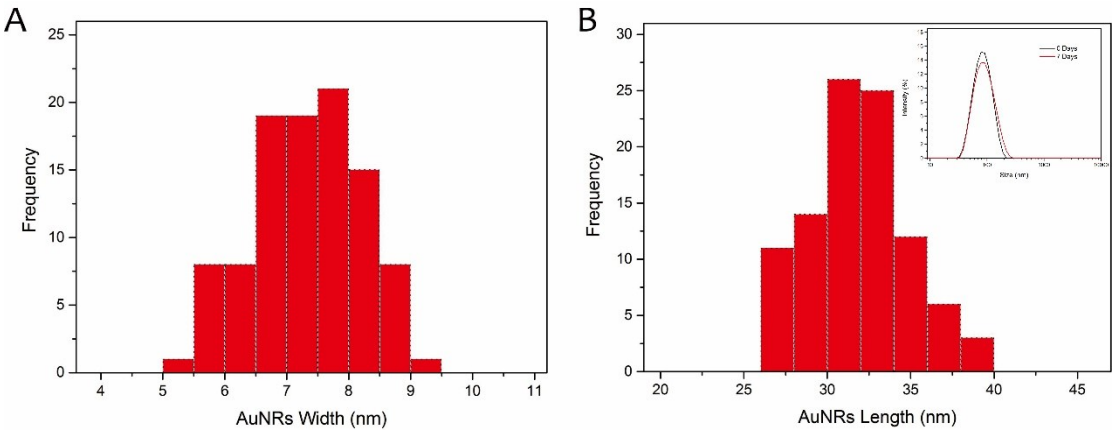

Figure S1.Width (A) and Length (B) distributions of 100 GNRs counted

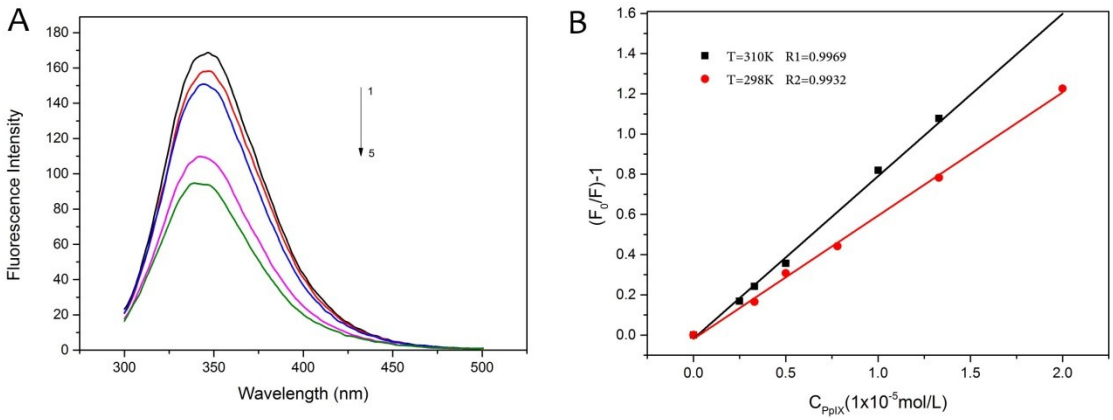

Figure S2. (A) Fluorescence emission spectra of BSA in the presence of PpIX. (B) Stem-Volmer plots for the interaction of BSA with PpIX at different temperature.

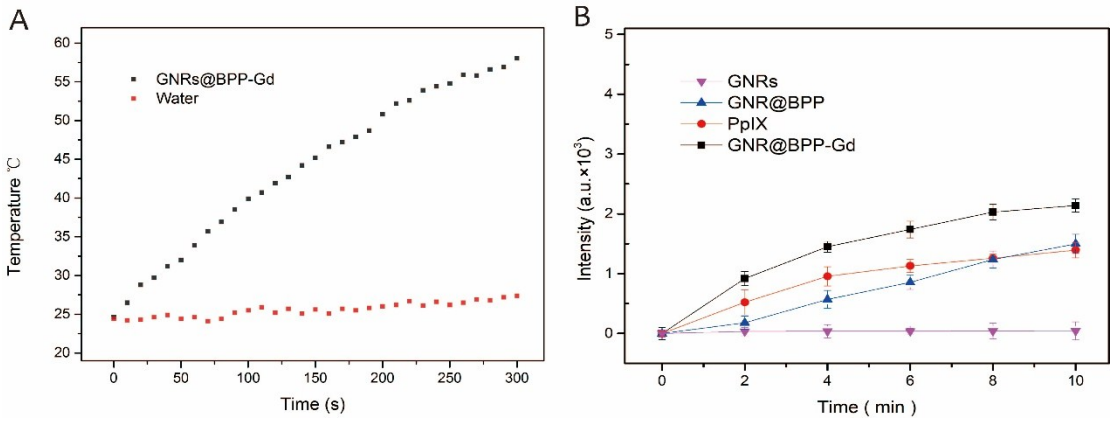

Figure S3. (A) The elevation of temperature between GNRs@BPP-Gd and water. (B) The fluorescence intensity of each group at the present of DCFH

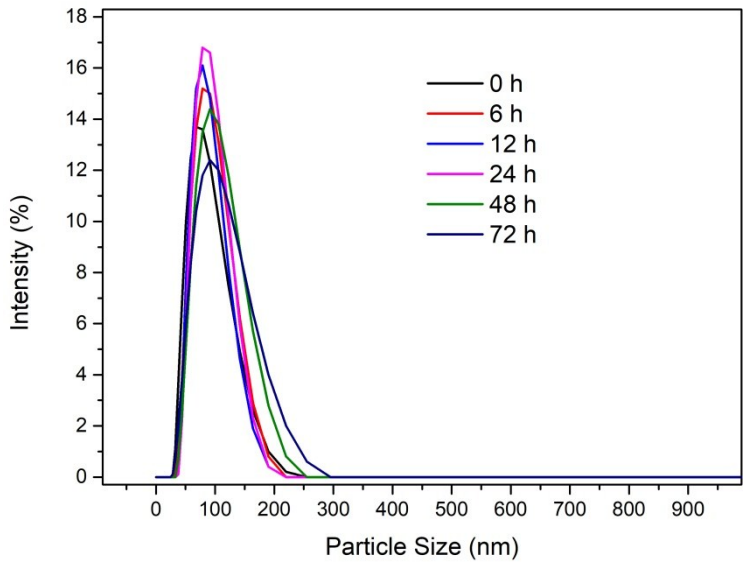

Figure S4. Hydrodynamic size of GNR@BPP-Gd incubated in MEM containing 10% fetal bovine serum at different times.

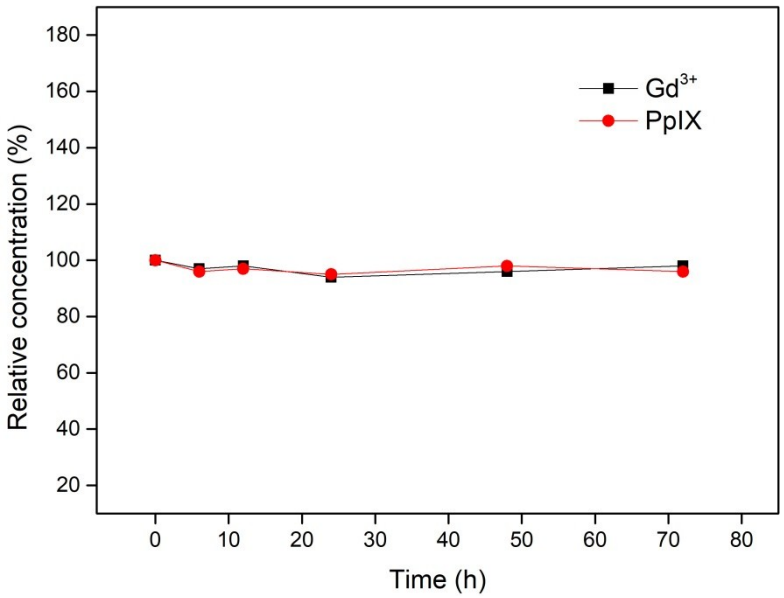

Figure S5. The stability of PpIX and Gd in GNRs@BPP-Gd nanoplatform. The concentration of Gd^{3+} was evaluated by ICP and the concentration of PpIX was indirect determined by measuring the absorption at 660 nm.

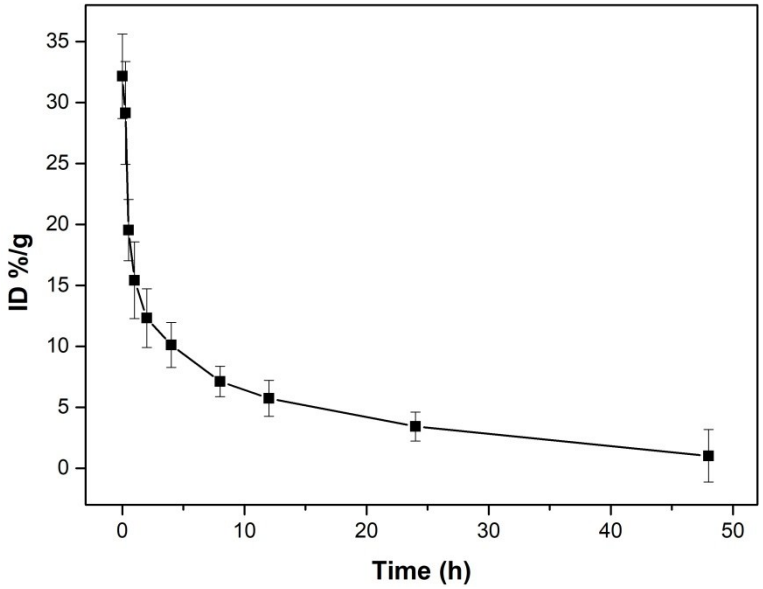

Figure S6. Blood circulation curve of GNRs@BPP-Gd