Accepted Manuscript

Ultra-high FRET efficiency NaGdF₄: Tb³⁺-Rose Bengal biocompatible nanocomposite for X-ray excited photodynamic therapy application

Wenli Zhang, Xiaofeng Zhang, Yingli Shen, Feng Shi, Chaojun Song, Tianshuai Liu, Peng Gao, Bin Lan, Miao Liu, Sicheng Wang, Li Fan, Hongbing Lu

PII: S0142-9612(18)30632-X

DOI: 10.1016/j.biomaterials.2018.09.001

Reference: JBMT 18872

To appear in: Biomaterials

Received Date: 25 May 2018

Revised Date: 24 August 2018

Accepted Date: 1 September 2018

Please cite this article as: Zhang W, Zhang X, Shen Y, Shi F, Song C, Liu T, Gao P, Lan B, Liu M, Wang S, Fan L, Lu H, Ultra-high FRET efficiency NaGdF₄: Tb³⁺-Rose Bengal biocompatible nanocomposite for X-ray excited photodynamic therapy application, *Biomaterials* (2018), doi: 10.1016/j.biomaterials.2018.09.001.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

1 Ultra-high FRET Efficiency NaGdF₄: Tb³⁺-Rose

2 Bengal Biocompatible Nanocomposite for X-ray

Excited Photodynamic Therapy Application

4
5 Wenli Zhang ^{a⊥}, Xiaofeng Zhang ^{a⊥}, Yingli Shen ^c, Feng Shi ^c, Chaojun Song ^d,

6 Tianshuai Liu ^a, Peng Gao ^a, Bin Lan ^a, Miao Liu ^c, Sicheng Wang ^d, Li Fan ^{b*} and

7 Hongbing Lu ^a*

8

- 9 ^a School of Biomedical Engineering, Fourth Military Medical University, 169 Changle
- West Road, Xi'an 710032, P. R. China.
- 11 b Department of Pharmaceutical analysis, School of Pharmacy, and The State Key
- 12 Laboratory of Cancer Biology (CBSKL), The Fourth Military Medical University,
- 13 169th Changle West Road, Xi'an, Shaanxi, 710032, China.
- ^c Shaanxi Key Laboratory for Advanced Energy Devices; Shaanxi Engineering Lab
- 15 for Advanced Energy Technology; Key Laboratory of Applied Surface and Colloid
- 16 Chemistry, National Ministry of Education; School of Materials Science and
- 17 Engineering, Shaanxi Normal University, Xi'an 710119, China.
- d School of Life Science, Northwestern Polytechnical University, 127th Youyi west
- 19 road, Xi'an, Shaanxi, 710072, Chinae
- 20 d Department of Biomedical Engineering, Case Western Reserve University, 10900
- 21 Euclid Ave., Cleveland, Ohio 44106 United States

22

- 23 Corresponding Authors' e-mail: luhb@fmmu.edu.cn (Hongbing Lu),
- 24 xxfanny@fmmu.edu.cn (Li Fan)
- 25 These authors contributed equally to this work.

Download English Version:

https://daneshyari.com/en/article/8959755

Download Persian Version:

https://daneshyari.com/article/8959755

<u>Daneshyari.com</u>