Fabrication of mesoporous La₃Ga₅GeO₁₄: Cr³⁺, Zn²⁺ persistent

luminescence nanocarriers with super-long afterglow for

bioimaging-guided in vivo drug delivery to gut

Dong-Dong Zhang,^{a,‡} Jing-Min Liu,^{b,‡} Nan Song,^a Yao-Yao Liu,^a Meng Dang,^a Guo-Zhen Fang,^{a,*} and Shuo Wang^{b, c,*}

^a Key Laboratory of Food Nutrition and Safety, Ministry of Education, Tianjin University of Science and Technology, Tianjin, 300457, China

^b Tianjin Key Laboratory of Food Science and Health, School of Medicine, Nankai University, Tianjin 300071, China

^{c.} Beijing Advanced Innovation Center for Food Nutrition and Human Health, Beijing Technology & Business University (BTBU), Beijing, 100048, China.

[‡]These authors contributed equally to the work.

^{*}Corresponding Author.

E-mail: fangguozhen@tust.edu.cn (G. Z. Fang), wangshuo@nankai.edu.cn (S. Wang)

1. The effect of different TEOS additions on the thickness of mesoporous silica.

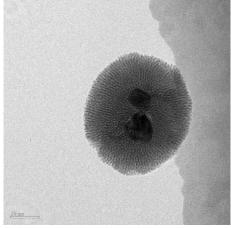


Fig. S1 HRTEM images of NPs@SiO_ (added 600 μL 10% tetraethyl orthosilicate (TEOS)/methanol

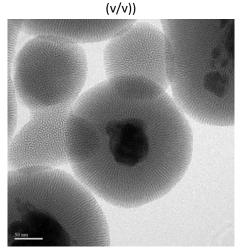


Fig. S2 HRTEM images of NPs@SiO₂ (added 900 μ L 10% tetraethyl orthosilicate (TEOS)/methanol (v/v))