

## 材料与物理研究所



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2019年8月-至今, 中国科学院海西研究院厦门稀土材料研究所, 副研究员  
2016年8月-2019年7月, 中国科学院城市环境研究所, 助理研究员  
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### 研究方向:

1. 面向生物医学应用的新型稀土长余辉纳米材料的设计合成及其机理研究
2. 新型稀土长余辉纳米材料在疾病诊断和治疗中的应用
3. 稀土长余辉纳米材料的临床转化研究

### 代表论著:

- (1) J. Shi#, X. Sun#, S. Zheng, L. Song, F. Zhang, T. Madl, Y. Zhang\*, H. Zhang\*, M. Hong, Tin-doped near-infrared persistent luminescence nanoparticles with considerable improvement of biological window activation for deep tumor photodynamic therapy, *ACS Appl Bio Mater* 3(9) (2020) 5995-6004.
- (2) N. Liu#, J. Shi#, Q. Wang#, J. Guo, Z. Hou, X. Su\*, H. Zhang\*, X. Sun\*, In vivo repeatedly activated persistent luminescence nanoparticles by radiopharmaceuticals for long-lasting tumor optical imaging, *Small* (2020) 2001494.
- (3) J. Shi#, X. Sun#, S. Zheng, X. Fu, Y. Yang, J. Wang, H. Zhang\*, Super-long persistent luminescence in the ultraviolet A region from a Bi<sup>3+</sup>-doped LiYGeO<sub>4</sub> phosphor, *Adv Opt Mater* 7(19) (2019) 1900526.
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- (5) X. Sun, J. Shi\*, S. Zheng, J. Li, S. Wang, H. Zhang\*, Visualization of inflammation in a mouse model based on near-infrared persistent luminescence nanoparticles, *J Lumin* 204 (2018) 520-527.
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- (7) J. Shi#, M. Sun#, X. Sun, H. Zhang\*, Near-infrared persistent luminescence hollow mesoporous nanospheres for drug delivery and in vivo renewable imaging, *J Mater Chem B* 4(48) (2016) 7845-7851.
- (8) J. Shi, X. Sun, J. Li, H. Man, J. Shen, Y. Yu, H. Zhang\*, Multifunctional near infrared-emitting long-persistence luminescent nanoprobe for drug delivery and targeted tumor imaging, *Biomaterials* 37 (2015) 260-270.
- (9) J. Shi, H. Fu, X. Sun, J. Shen, H. Zhang\*, Magnetic, long persistent luminescent and mesoporous nanoparticles as trackable transport drug carriers, *J Mater Chem B* 3(4) (2015) 635-641.
- (10) J. Shi, X. Sun, Y. Lin, X. Zou, Z. Li, Y. Liao, M. Du, H. Zhang\*, Endothelial cell injury and dysfunction induced by silver nanoparticles through oxidative stress via IKK/NF- $\kappa$ B pathways, *Biomaterials* 35(24) (2014) 6657-6666.

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