



徐赛

副教授

硕士生导师

xusai@dlnu.edu.cn

教育背景

吉林大学工学博士（2015）

吉林大学工学学士（2010）

研究领域

稀土纳米光转换材料的光学性质及生物应用研究

代表性成果

论文类:

(1) Improved LRET-based detection characters of Cu^{2+} using sandwich structured $\text{NaYF}_4@\text{NaYF}_4:\text{Er}^{3+}/\text{Yb}^{3+}@\text{NaYF}_4$ nanoparticles as energy donor, *Sensors and Actuators B*, 2018, 257, 829 (SCI)

(2) 808 nm laser induced photothermal effect on $\text{Sm}^{3+}/\text{Nd}^{3+}$ doped $\text{NaY}(\text{WO}_4)_2$ microstructures, *Sensors and Actuators B*, 2017, 240, 386 (SCI)

(3) Remarkable fluorescence enhancement of upconversion composite film and its application on mercury sensing, *J. Rare Earth.*, 2017, 35, 460 (SCI)

(4) Paper-based upconversion fluorescence resonance energy transfer biosensor for sensitive detection of multiple cancer biomarkers, *Sci. Rep.*, 2016, 6, 23406 (SCI)

(5) A novel upconversion, fluorescence resonance energy transfer biosensor (FRET) for sensitive detection of lead ions in human serum, *Nanoscale*, 2014, 6, 12573 (SCI)

(6) $\text{NaYF}_4:\text{Yb},\text{Tm}$ nanocrystals and TiO_2 inverse opal composite films: A novel device for upconversion enhancement and solid-based sensing of avidin, *Nanoscale*, 2014, 6, 5859 (SCI)

(7) A strategy for calibrating the actual quantum efficiency of quantum cutting in $\text{YVO}_4:\text{Bi}^{3+}(\text{Nd}^{3+}), \text{Yb}^{3+}$, *J. Appl. Phys.*, 2013, 113, 073101 (SCI)

(8) Downconversion from visible to near infrared through multi-wavelength excitation in $\text{Er}^{3+}/\text{Yb}^{3+}$ co-doped NaYF_4 nanocrystals, *J. Appl. Phys.*, 2011, 110, 113113 (SCI)

代表性项目

(1) 中国博士后科学基金特别资助, 2018T110212, 高灵敏度上转换荧光微阵列探针在肺癌早期诊断中的应用,

2018/06-2019/12, 运行, 主持。

(2) 国家自然科学基金青年项目, 11704056, 基于局域场增强稀土上转换荧光探针的肿瘤标志物可视化检测研究,

2018/01-2020/12, 运行, 主持。

(3) 中央高校基本科研业务费, 3132018244, 具有温度反馈功能的稀土/贵金属纳米光热转换体系的构筑与应用,

2018/01-2018/12, 运行, 主持。

(4) 中国博士后科学基金面上资助, 2016M591420, 增强型固态上转换荧光探针的制备及生物检测应用研究,

2016/06-2018/12, 运行, 主持。

其他

