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#### 教育背景

大连海事大学理学博士（2009）  
鞍山师范学院理学学士（2004）

#### 研究领域

光功能材料及其应用

#### 代表性成果

论文类：

- (1) Efficient Color Tuning of Upconversion Luminescence from Core-Shell Oxysulfide Nanoparticles, Journal of Nanomaterials, 2019, 2019, 7152690 (SCI)
- (2) Thermal effects of  $\text{Er}^{3+}/\text{Yb}^{3+}$ -doped  $\text{NaYF}_4$  phosphor induced by 980/1510 nm laser diode irradiation, Journal of the American Ceramic Society, 2018, 101, 865 (SCI)
- (3) Three primary color emissions from single multilayered nanocrystals, Nanoscale, 2018, 10, 9673 (SCI)
- (4) Single red up-conversion luminescence of Er sensitized layered  $\text{Y}_2\text{Ti}_2\text{O}_7$  phosphor, Solid State Sciences, 2018, 82, 65 (SCI)
- (5) Single red up-conversion emission of  $\text{Er}^{3+}$ ,  $\text{Tm}^{3+}$  co-doped  $\text{NaYF}_4$  nano particles under 1510 nm excitation, Materials Research Bulletin, 2018, 97, 379 (SCI)
- (6) Upconversion luminescence properties of  $\text{Y}_2\text{O}_2\text{S}:\text{Er}^{3+}$  @  $\text{Y}_2\text{O}_2\text{S}:\text{Yb}^{3+}, \text{Tm}^{3+}$  core-shell nanoparticles prepared via homogeneous co-precipitation, Optical Materials 2017, 64, 58 (SCI)
- (7) Up-conversion luminescence of  $\text{NaY}(\text{WO}_4)_2:\text{Yb}$ , Er under 1550 and 980 nm excitation, Materials Research Bulletin, 2016, 80, 223 (SCI)
- (8) Design and achieving of multicolor upconversion emission based on rare-earth doped tellurite glasses, Journal of Rare Earths, 2014, 32, 394 (SCI)

(9) Upconversion emission colour modulation of  $Y_2O_2S:Yb,Er$  under 1.55  $\mu m$  and 980 nm excitation, Journal of Alloys and Compounds, 2014, 587, 344 (SCI)

(10) Afterglow performance enhancement and mechanism studies on  $Y_2O_2S:Eu,Mg,Ti$  prepared via cold isostatic pressing, Journal of Alloys and Compounds 2014, 585, 376 (SCI)

#### 著作类:

(1)《大学物理实验》(参编),机械工业出版社2018年版

#### 代表性项目

(1)国家自然科学基金青年项目,11504039,稀土硫氧化物上转换荧光探针的一步合成与生物成像研究,2016/01-2018/12,已结题,主持。(2)辽宁省科技厅博士启动基金,20121029,X射线安检用新型纳米稀土硫氧化物X射线荧光粉的研究,2012/08-2014/12,已结题,主持。

(3)辽宁省教育厅科研项目,L2014212,基于稀土硫化物的缺陷发光机理探索研究,2014/07-2017/07,已结题,主持。

(4)辽宁省自然科学基金,2015020206,低照度可见光激发的长余辉发光材料发光机理与发光效率提高研究,2015/08-2018/06,已结题,主持。

#### 荣誉奖励

辽宁省技术发明三等奖,稀土上转换三基色发光粉及其相关开发产品,证书号:2010-3-08-04

#### 其他

