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教育背景

吉林大学 理学博士 (2009)
吉林师范大学 工学学士 (2004)

研究领域

固体发光与光电技术, 主要从事稀土离子和过渡金属离子掺杂光学功能材料的研究。

代表性成果

论文类:

- (1) Sol-gel auto-combustion preparation and photoluminescence properties of Er^{3+} -doped $\text{K}_2\text{La}_2\text{Ti}_3\text{O}_{10}$ phosphors with superior thermal luminescence stability, *Colloids and Surfaces A* 578, 123595, 2019. (SCI)
- (2) Concentration effect on up-conversion luminescence and excitation path-dependent luminescence temperature quenching in $\text{YNbO}_4:\text{Ho}^{3+}/\text{Yb}^{3+}$ phosphors, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 217, 107-112, 2019. (SCI)
- (3) A comparative study of spectral and temperature sensing properties of Er^{3+} mono-doped LnNbO_4 ($\text{Ln}=\text{Lu}, \text{Y}, \text{Gd}$) phosphors under 980 and 1500 nm excitations, *Materials Research Bulletin*, 111, 177-182, 2019. (SCI)
- (4) Highly stable and tunable white luminescence from Ag-Eu³⁺ co-doped fluoroborate glass phosphors combined with violet LED, *Optics Express*, 26(2), 1870-1881, 2018. (SCI)
- (5) Effects of Er^{3+} concentration on down-/up-conversion luminescence and temperature sensing properties in $\text{NaGdTiO}_4:\text{Er}^{3+}/\text{Yb}^{3+}$ phosphors, *Ceramics International*, 42(13), 14710-14715, 2016. (SCI)
- (6) Luminescence studies of Sm^{3+} single-doped and $\text{Sm}^{3+}, \text{Dy}^{3+}$ co-doped NaGdTiO_4 phosphors, *Physica B: Condensed*

Matters, 481, 197-203, 2016. (SCI)

- (7) Can temperature be accurately sensed by red-green emission ratio in $\text{YNbO}_4: \text{Ho}^{3+}/\text{Yb}^{3+}$ phosphor under 980 nm excitation? *Journal of Alloys and Compounds*, 754, 222-226, 2018. (SCI)
- (8) Up-conversion luminescence, temperature sensing properties and laser-induced heating effect of $\text{Er}^{3+}/\text{Yb}^{3+}$ co-doped YNbO_4 phosphors under 1550 nm excitation, *Scientific Reports*, 8, 5736, 2018. (SCI)
- (9) $\text{NaYF}_4: \text{Sm}^{3+}/\text{Yb}^{3+}@\text{NaYF}_4: \text{Er}^{3+}/\text{Yb}^{3+}$ core-shell structured nanocalorifier with optical temperature probe for photothermal therapy, *Optics Express*, 25(13), 16047-16058, 2017. (SCI)
- (10) Concentration- dependent spectroscopic properties and temperature sensing of $\text{YNbO}_4: \text{Er}^{3+}$ phosphors, *RSC Advance*, 7, 23751-23758, 2017. (SCI)
- (11) Microwave-assisted hydrothermal synthesis, temperature quenching and laser-induced heating effect of hexagonal microplate $\beta\text{-NaYF}_4: \text{Er}^{3+}/\text{Yb}^{3+}$ microcrystals under 1550 nm laser irradiation, *Sensors and Actuators B: Chemical*, 246, 175-180, 2017. (SCI)
- (12) Optical temperature sensing properties of $\text{Yb}^{3+}/\text{Tm}^{3+}$ co-doped NaLuF_4 crystals, *Current Applied Physics*, 17, 999-1004, 2017. (SCI)
- (13) Concentration- and temperature-dependent fluorescent quenching and Judd–Ofelt analysis of Eu^{3+} in $\text{NaLaTi}_2\text{O}_6$ phosphors, *Journal of Materials Science*, 2017, 52, 935-943. (SCI)
- (14) Theoretical evaluation on laser cooling of ZBLAN:Er^{3+} glass within situ optical temperature sensing, *Sensors and Actuators B: Chemical*, 220, 362-368, 2015. (SCI)
- (15) Comparative study on upconversion luminescence and temperature sensing of $\alpha\text{-}$ and $\beta\text{-NaYF}_4: \text{Yb}^{3+}/\text{Er}^{3+}$ nano-/micro- crystals derived from a microwave- assisted hydrothermal route, *Journal of Luminescence*, 167, 386-390, 2015. (SCI)

代表性项目

- (1) 国家自然科学基金青年项目，11104023，绿光 LD 诱导两种反斯托克斯荧光并行制冷的掺铒玻璃材料与基础物理问题研究，2012/01– 2014/12，已结题，主持。
- (2) 中国博士后科学基金项目，20110491539，表面等离子体荧光增强稀土掺杂玻璃荧光体的研究，

2011/04-2013/03, 已结题, 主持。

(3) 辽宁省博士科研启动基金项目, 20111032, 白光LED用新型高效红色荧光粉荧光增强研究, 2012/01-2013/10, 已结题, 主持。

(4) 辽宁省自然科学基金面上项目, 2015010190, 高效蓝色上转换荧光粉的试验优化设计及发光机理研究, 2016/01-2017/12, 已结题, 主持。

(5) 大连市高层次人才创新支持计划项目, 2016RQ037, 频率上转换三维立体显示用荧光材料的研制及应用研究, 2016/10-2018/09, 在研, 主持。

荣誉奖励

大连市青年科技之星

辽宁省“百千万人才工程”万层次人选

社会兼职

其他

