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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) Bright green up-conversion luminescence of $\text{LaNbO}_4:\text{Nd}^{3+}/\text{Yb}^{3+}/\text{Ho}^{3+}$ phosphors under 808 nm and 980 nm excitations and the effects of dopant concentration, *Journal of Luminescence*, 241, 118524, 2022. (SCI)
- (2) Luminescence and optical properties of sodium germanate glasses doped with Sm^{3+} ions, *Materials Research Bulletin*, 153, 111905, 2022. (SCI)
- (3) Effects of Bi^{3+} on down-/up-conversion luminescence, temperature sensing and optical transition properties of $\text{Bi}^{3+}/\text{Er}^{3+}$ co-doped YNbO_4 phosphors, *Journal of Rare Earths*, 40, 381-389, 2022. (SCI)
- (4) Temperature dependence of up-conversion luminescence and sensing properties of $\text{LaNbO}_4:\text{Nd}^{3+}/\text{Yb}^{3+}/\text{Ho}^{3+}$ phosphor under 808 nm excitation, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 244: 118846, 2021. (SCI)

- (5) Optical transition and luminescence properties of Sm³⁺ doped YNbO₄ powder phosphors, *Journal of the American Ceramic Society*, 103, 1037-1045, 2020. (SCI)
- (6) Sol-gel auto-combustion preparation and photoluminescence properties of Er³⁺-doped K₂La₂Ti₃O₁₀ phosphors with superior thermal luminescence stability, *Colloids and Surfaces A* 578, 123595, 2019. (SCI)
- (7) Concentration effect on up-conversion luminescence and excitation path-dependent luminescence temperature quenching in YNbO₄:Ho³⁺/Yb³⁺ phosphors, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 217, 107-112, 2019. (SCI)
- (8) A comparative study of spectral and temperature sensing properties of Er³⁺ mono-doped LnNbO₄ (Ln=Lu, Y, Gd) phosphors under 980 and 1500 nm excitations, *Materials Research Bulletin*, 111, 177-182, 2019. (SCI)
- (9) 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)
- (10) Effects of Er³⁺ concentration on down-/up-conversion luminescence and temperature sensing properties in NaGdTlO₄: Er³⁺/Yb³⁺ phosphors, *Ceramics International*, 42(13), 14710-14715, 2016. (SCI)
- (11) Can temperature be accurately sensed by red-green emission ratio in YNbO₄: Ho³⁺/Yb³⁺ phosphor under 980 nm excitation? *Journal of Alloys and Compounds*, 754, 222-226, 2018. (SCI)
- (12) Up-conversion luminescence, temperature sensing properties and laser-induced heating effect of Er³⁺/Yb³⁺ co-doped YNbO₄ phosphors under 1550 nm excitation, *Scientific Reports*, 8, 5736, 2018. (SCI)
- (13) NaYF₄: Sm³⁺/Yb³⁺@NaYF₄: Er³⁺/Yb³⁺ core-shell structured nanocalorifier with optical temperature probe for photothermal therapy, *Optics Express*, 25(13), 16047-16058, 2017. (SCI)
- (14) Microwave-assisted hydrothermal synthesis, temperature quenching and laser-induced heating effect of hexagonal microplate β-NaYF₄: Er³⁺/Yb³⁺ microcrystals under 1550 nm laser irradiation, *Sensors and Actuators B: Chemical*, 246, 175-180, 2017. (SCI)
- (15) Theoretical evaluation on laser cooling of ZBLAN:Er³⁺ glass within situ optical temperature sensing, *Sensors and Actuators B: Chemical*, 220, 362-368, 2015. (SCI)

代表性项目

- (1) 国家自然科学基金青年项目，绿光 LD 诱导两种反斯托克斯荧光并行制冷的掺铈玻璃材料与基础物理问题研究，已结题，主持。
- (2) 辽宁省自然科学基金面上项目，LED 背光显示用锰离子掺杂红光发射玻璃陶瓷的制备及荧光性能调控，在研，主持。
- (3) 辽宁省自然科学基金面上项目，高效蓝色上转换荧光粉的试验优化设计及发光机理研究，已结题，主持。
- (4) 辽宁省博士科研启动基金项目，白光 LED 用新型高效红色荧光粉荧光增强研究，已结题，主持。
- (5) 中国博士后科学基金项目，表面等离子体荧光增强稀土掺杂玻璃荧光体的研究，已结题，主持。

荣誉奖励

大连市青年科技之星

辽宁省优秀硕士学位论文指导教师

社会兼职

其他