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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) Near-unity internal quantum efficiency in $Na_2CaHf_2Ge_3O_{12}$: Fe^{3+} phosphors via non-stoichiometric Na plus engineering, *Advanced Optical Materials*, 14(23), 00020, 2026.（**SCI**）

(2) Defect engineering enabled multimodal dynamic optical responses in Tb^{3+}-doped $Ca_2GdGa_3Ge_2O_{12}$ garnet for advanced anti-counterfeiting, *Advanced Optical Materials*, 14(30), 71488, 2026.（**SCI**）

(3) La^{3+}-modulated Upconversion luminescence and thermometric performance of $Yb_{0.2}Zr_{0.8}O_{1.9}$: Ho^{3+} phosphors for edible oil temperature monitoring, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 363, 128463, 2026.（**SCI**）

(4) Dy^{3+}/Eu^{3+} co-doped Ca_2InTaO_6 phosphor for latent fingerprint visualization and anti-counterfeiting, *Journal of Alloys and Compounds*, 1050, 185827, 2026.（**SCI**）

(5) Enhanced upconversion luminescence and optical temperature

sensing in $BaGd_2O_4$: Yb^{3+}/Ho^{3+} phosphors via Zn^{2+} doping, *Radiation Physics and Chemistry*, 243, 113738, 2026.（**SCI**）

(6) High-performance Cr^{3+}-doped $Ca_2GdGa_3Ge_2O_{12}$ near-infrared phosphors toward multifunctional applications, *Materials Today Chemistry*, 50, 103125, 2025.（**SCI**）

(7) Multimodal luminescence in Ca_2InTaO_6:Pr^{3+} phosphors: applications in dynamic anticounterfeiting and optical thermometry, *Inorganic Chemistry*, 64(21), 10653−10664, 2025.（**SCI**）

(8) Enhancing up-conversion luminescence and thermometric performance in $Mg_3Y_2Ge_3O_{12}$: Er^{3+}, Yb^{3+} phosphors via Zr^{4+} doping, *Ceramics International*, 51, 34911-34921, 2025.（**SCI**）

(9) Luminescence property and energy transfer of color-tunable $Bi_2Mo_2O_9$: Tb^{3+}, Eu^{3+} phosphors with high temperature sensitivity, *Ceramics International*, 51, 13615–13624, 2025.（**SCI**）

(10) Visible to near-infrared emissions of $Bi_2Mo_2O_9$: Pr^{3+} multifunctional phosphors for multi-mode temperature sensing, white LEDs and bioimaging, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 330, 125673, 2025.（**SCI**）

(11) Luminescence, temperature sensing and Judd-Ofelt analysis of $Bi_2Mo_3O_{12}$: Eu^{3+} phosphors and the application in latent fingerprint visualization, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 327, 125285, 2025.（**SCI**）

(12) Impact of nitridation on the up-conversion luminescence property of $Yb_3Al_5O_{12}$: Er^{3+} phosphors upon 980 nm excitation, *Inorganic Chemistry Communications*, 160, 111905, 2024.（**SCI**）

(13) Effects of Bi^{3+} on down-/up-conversion luminescence, temperature sensing and optical transition properties of Bi^{3+}/Er^{3+} co-doped $YNbO_4$ phosphors, *Journal of Rare Earths*, 40, 381-389, 2022.（**SCI**）

(14) Temperature dependence of up-conversion luminescence and sensing properties of $LaNbO_4$: $Nd^{3+}/Yb^{3+}/Ho^{3+}$ phosphor under 808 nm excitation, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 244: 118846, 2021.（**SCI**）

(15) Optical transition and luminescence properties of Sm^{3+} doped $YNbO_4$ powder phosphors, *Journal of the American Ceramic Society*, 103, 1037-1045, 2020.（**SCI**）

(16) Concentration effect on up-conversion luminescence and excitation path-dependent luminescence temperature quenching in $YNbO_4$:Ho^{3+}/Yb^{3+} phosphors, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 217, 107-112, 2019.（**SCI**）

(17) Highly stable and tunable white luminescence from Ag-Eu^{3+} co-doped fluoroborate glass phosphors combined with violet LED, *Optics Express*, 26(2), 1870-1881, 2018.（**SCI**）

(18) $NaYF_4$: Sm^{3+}/Yb^{3+}@NaY_{F4}: Er^{3+}/Yb^{3+} core-shell structured nanocalorifier with optical temperature probe for photothermal therapy, *Optics Express*, 25(13), 16047-16058, 2017. **（SCI）**

(19) Microwave-assisted hydrothermal synthesis, temperature quenching and laser-induced heating effect of hexagonal microplate β-$NaYF_4$: Er^{3+}/Yb^{3+} microcrystals under 1550 nm laser irradiation, *Sensors and Actuators B: Chemical*, 246, 175-180, 2017. **（SCI）**

(20) 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）**

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铒玻璃材料与基础物理问题研究，已结题，主持。

（2）辽宁省科技计划联合计划项目：稀土掺杂多模态发光材料的动态调控机制及智能防伪应用，在研，主持。

（3）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，已结题，主持。

（4）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。

（5）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。

（6）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

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