



张金苏

副教授

硕士生导师

melodyzjs@dlmu.edu.cn

教育背景

中国科学院长春光学精密机械与物理研究所理学博士
(2010)

吉林大学工学学士 (2005)

研究领域

稀土长余辉材料

稀土掺杂白光照明用荧光粉

稀土离子光谱理论

代表性成果

论文类:

(1) Qi Ye, **Zhang Jinsu***, Yu Hongquan*, Sun Jiashi, Li Xiangping, Cheng Lihong, Chen Baojiu, Long persistent and photostimulated luminescence properties of $\text{Sr}_2\text{Al}_2\text{SiO}_7: \text{Eu}^{2+}/\text{Tm}^{3+}$ phosphors, *J. Rare Earths*, 2016,34, 1-6.

(2) **Jinsu Zhang***, Baojiu Chen*, Jiashi Sun, Xiangping Li, Lihong Cheng, Haiyang Zhong. Spectroscopy and calculations for f-f transitions of Tb^{3+} ions in KY_3F_{10} nanocrystals. *J. Nanosci. Nanotechnol.* 2015,15(6).

(3) **Jinsu Zhang***, Baojiu Chen*, Zuoqiu Liang, Xiangping Li, Jiashi Sun, Lihong Cheng, Haiyang Zhong. Optical transition and thermal quenching mechanism in $\text{CaSnO}_3:\text{Eu}^{3+}$ phosphors. *J. Alloys Compd.*2014, 612.

(4) **Jinsu Zhang***, Baojiu Chen*, Jiashi Sun, Xiangping Li, Lihong Cheng and Haiyang Zhong. White long-lasting phosphorescence generation in a $\text{CaAl}_2\text{Si}_2\text{O}_8: \text{Eu}^{2+}, \text{Mn}^{2+}, \text{Dy}^{3+}$ system through persistent energy transfer, *J. Phys. D: Appl. Phys.* 2012, 45 325105.

(5) **Jinsu Zhang***, Baojiu Chen*, Zuoqiu Liang, Xiangping Li, Jiashi Sun, Ruixia Zhong, Lihong Cheng, Haiyang Zhong. Interionic cross relaxation and tunable

color luminescence in $\text{KY}_3\text{F}_{10}:\text{Tb}^{3+}$ nano/microcrystals synthesized by hydrothermal approach, *J. Fluor. Chem.* 2012, 144 1-6.

(6) **Jinsu Zhang***, Haiyang Zhong, Jiashi Sun, Lihong Cheng, Xiangping Li, Baojiu Chen*. Reddish orange long lasting phosphorescence in $\text{KY}_3\text{F}_{10}:\text{Sm}^{3+}$ for X-ray or cathode ray tubes, *Chin. Phys. Lett.* 2012, 29 017101.

(7) **Jinsu Zhang**, Feng Liu, Baojiu Chen, Xiaojun Wang, and Jiahua Zhang*. Parameterizing intensity of $4f^2 \rightarrow 4f^2$ electric-dipole transitions in Pr^{3+} doped LiYF_4 . *Phy. Lett. A* 2011, 375 743-746.

代表性项目

(1) 国家自然科学基金青年基金项目, 11104024, 基于持续能量传递和量子剪裁的红外长余辉的机理研究, 2012/01-2014/12, 已结题, 主持

(2) 辽宁省博士启动基金, 20111031, 纳米材料中稀土离子光跃迁性质的物理研究, 2012/01-2013/12, 已结题, 主持

(3) 辽宁省优秀人才培养基金, 2014025010, 基于介孔材料模板的稀土离子掺杂钙钛矿结构长余辉纳米材料的可控合成, 2015/01-2016/12, 已结题, 主持