

发 光 学 报

FAGUANG XUEBAO

第 32 卷 第 5 期 2011 年 5 月

目 次

· 特邀报告 ·

Ce³⁺ 离子激活的(氟)磷酸盐基质发光材料的光谱特性
..... 梁宏斌, 田梓峰, 钟致平, 潘国强, 张国斌, 石军岩, 苏 铮 (411)

· 材料合成及性能研究 ·

Y₃Al₅O₁₂: Ce³⁺, Cr³⁺ 和 Y₃Al₅O₁₂: Ce³⁺, Pr³⁺, Cr³⁺ 荧光粉体系中的能量传递
..... 王 磊, 张 霞, 郝振东, 骆永石, 王笑军, 张家骅 (417)

单晶 ZnO 纳米棒的 H₂O₂ 辅助水热法制备与表征 刘 宝, 吴佑实, 吴莉莉, 张长桥 (423)

水热合成 ZnTe 纳米粉的发光性能 徐幸梓, 王必本, 陈玉安 (428)

Ho³⁺ 单掺杂及其与 Yb³⁺、Er³⁺ 共掺杂硼硅酸盐玻璃上转换发光的光谱分析
..... 程宇琪, 李成仁, 牛淑云, 殷海涛, 张 丽 (433)

Eu²⁺ 激活的 Ba_{5-x}Sr_x(PO₄)₃Cl 的发光性质 任国强, 杨艳民, 马淑媛 (440)

荧光粉(C_{22.94-x}Lu_xCe_{0.06})(ScMg)Si₃O₁₂ 的晶体结构和荧光性质
..... 刘永福, 张 霞, 郝振东, 王笑军, 张家骅 (445)

Li⁺ 离子掺杂对红色发光材料 Y₂(W, Mo)O₆: Eu³⁺ 发光性能的影响 金海杰, 田莲花 (451)

Sm³⁺ 掺杂对 CaMoO₄: Eu³⁺ 红色荧光粉结构和发光性质的影响
..... 丁洪岩, 孙江亭, 刘 威, 孟庆裕, 吕树臣 (456)

· 器件制备及器件物理 ·

垂直氧化锌纳米线中的激射现象 郭 振, Andreazza-Vignolle Caroline, Andreazza Pascal,
赵东旭, 刘益春, 张立功, 李炳辉, 张振中, 申德振 (465)

LaPO₄: Eu³⁺@SiO₂ 核壳结构发光纳米棒的制备与表征 刘桂霞, 李若兰, 董相廷, 王进贤 (466)

溅射的 Ti 薄膜热氧化形成的 TiO₂ 薄膜与 p⁺-Si 形成的异质结的电致发光
..... 张安邦, 马向阳, 金 璐, 杨德仁 (471)

聚电解质包覆的铕(III)配合物@SiO₂ 荧光纳米粒的合成与性质
..... 徐 容, 张丹丹, 袁高林, 谢 莲, 葛芝莉, 谢洪平 (476)

ZnMgO 生长中压强和衬底对薄膜性质的影响 陈 慧, 顾书林, 朱顺明 (482)

色散位移光纤中拉曼散射与参量放大增益谱
..... 贾维国, 杨盛际, 尹健全, 王旭颖, 张俊萍, 樊国梁 (487)

基于白光干涉的光缆无损识别方法 孙晶华, 陈 聪 (493)

键合型 PU/Eu(Cit)Phen 荧光纳米纤维制备与表征
..... 宋秋生, 张 恺, 马海红, 许 顺, 宋远周 (499)

· 光谱分析 ·

1,8-萘酰亚胺荧光单体的合成及光谱的量子化学研究
..... 张跃华, 张其平, 石文艳, 雷 武, 夏明珠, 王风云 (505)

金属-有机骨架[Zn(BDC)(H₂O)₂]_n 膜的原位制备及其对硝基苯类有机物的可逆检测
..... 李宗群, 张 敏, 薛 文, 裘灵光 (514)

期刊基本参数: CN 22-1116/O4 * 1980 * m * A4 * 120 * zh + en * P * ¥40.00 * 1000 * 19 * 2011-05 责任编辑: 梁 晶

CHINESE JOURNAL OF LUMINESCENCE

Vol. 32 No. 5

May 2011

CONTENTS

· Invited Paper ·

Luminescence of Ce^{3+} Activated (Fluoro-) Phosphates Under VUV-UV and X-ray Excitation
..... LIANG Hong-bin, TIAN Zi-feng, ZHONG Jiu-ping, et al. (416)

· Synthesis and Properties of Materials ·

Energy Transfer in $Y_3Al_5O_{12}:Ce^{3+},Cr^{3+}$ and $Y_3Al_5O_{12}:Ce^{3+},Pr^{3+},Cr^{3+}$ Phosphors
..... WANG Lei, ZHANG Xia, HAO Zhen-dong, et al. (422)

Preparation and Characterization of Single-crystal ZnO Nanorods via a H_2O_2 -assisted Hydrothermal Method
..... LIU Bao, WU You-shi, WU Li-li, et al. (427)

Photoluminescence Properties of ZnTe Nanopowder Synthesized by Hydrothermal Method
..... XU Xing-zi, WANG Bi-ben, CHEN Yu-an (432)

Spectral Analysis of Ho^{3+} -doped and Ho^{3+},Yb^{3+},Er^{3+} Co-doped Up-conversion Luminescence Borosilicate Glass
..... CHENG Yu-qi, LI Cheng-ren, NIU Shu-yun, et al. (439)

Investigation of Spectroscopic Properties in Eu^{2+} Activated $Ba_{5-x}Sr_x(PO_4)_3Cl$
..... REN Guo-qiang, YANG Yan-min, MA Shu-yuan (444)

Crystal Structure and Luminescence Properties of $(Ca_{2.94-x}Lu_xCe_{0.06})(SeMg)Si_3O_{12}$ Phosphors for White LEDs
..... LIU Yong-fu, ZHANG Xia, HAO Zhen-dong, et al. (450)

Photoluminescence Properties of $Y_2(W,Mo)O_6:Eu^{3+}$ Incorporated with Li^+ Ions JIN Hai-jie, TIAN Lian-hua (455)

Effect of Sm^{3+} Doping on Structural and Luminescent Properties of $CaMoO_4:Eu^{3+}$ Red Phosphors
..... DING Hong-yan, SUN Jiang-ting, LIU Wei, et al. (460)

· Device Fabrication & Physics ·

The Lasing Action Observed in Aligned ZnO Nanowires
..... GUO Zhen, Andrezza-Vignolle Caroline, Andrezza Pascal, et al. (462)

Preparation and Characterization of $LaPO_4:Eu^{3+}@SiO_2$ Core-shell Luminescent Nanorods
..... LIU Gui-xia, LI Ruo-lan, DONG Xiang-ting, et al. (470)

Electroluminescence of Heterostructures Formed by p⁺-Si and TiO_2 Films Derived from Oxidation of Sputtered Ti Films
..... ZHANG An-bang, MA Xiang-yang, JIN Lu, et al. (475)

Preparation and Characterization of Polyelectrolyte Coated Fluorescent Silica Nanoparticles by Adsorbing Europium Chelate
..... XU Rong, ZHANG Dan-dan, YUAN Gao-lin, et al. (481)

Influence of Different Substrate and Pressure on Growth and Properties of ZnMgO Films
..... CHEN Hui, GU Shu-lin, ZHU Shun-min (486)

Gain Spectra of Raman Scattering and Parametric Amplification in Birefringence Dispersion Shifted Fiber
..... JIA Wei-guo, YANG Sheng-ji, YIN Jian-quan, et al. (492)

Lossless Cable Identification Method Based on White-light Interference SUN Jing-hua, CHEN Cong (498)

Preparation and Characterization of Fluorescent Nanofibers Derived from Covalent Linked PU/Eu(Cit)Phen
..... SONG Qiu-sheng, ZHANG Kai, MA Hai-hong, et al. (509)

· Spectral Analysis ·

Synthesis and Quantum Chemistry Study on Fluorescence Spectra of Three 1,8-naphthalimide Monomers
..... ZHANG Yue-hua, ZHANG Qi-ping, SHI Wen-yan, et al. (513)

In-situ Preparation of Metal-organic Framework $[Zn(BDC)(H_2O)_2]_n$ Films and Reversible Detection of Nitrobenzenes
..... LI Zong-qun, ZHANG Min, XUE Wen, et al. (518)

Editorial Board of Chinese Journal of Luminescence

(3888 Dongnanhu Rd., Changchun 130033, P. R. China)