



EI 中文核心期刊

ISSN 1000-7032

CN 22-1116/O4

CODEN FAXUEW

发光学报

CHINESE JOURNAL OF LUMINESCENCE

第34卷

Vol. 34

2013

第2期

No. 2

中国科学院长春光学精密机械与物理研究所 主办
中国物理学会发光分会 出版
科学出版社

发 光 学 报

FAGUANG XUEBAO

第 34 卷 第 2 期 2013 年 2 月

目 次

· 材料合成及性能 ·

- 利用水热-后煅烧方法制备 $\text{Sr}_3(\text{PO}_4)_2\text{Cl}:\text{Ce}^{3+}$ 磷光体 谢东华, 陈祥迎, 陈 崇 (123)
- 白光 LED 用新型 $\text{MgAl}_2\text{O}_4/\text{Ce}$: YAG 透明陶瓷的发光性能
..... 贺龙飞, 范广涵, 雷牧云, 姜载亮, 郑树文, 苏 晨, 肖 瑶, 陈志武, 张 涛 (133)
- Cu 掺杂 ZnO 纳米材料的制备及表征
..... 兰飞飞, 王金忠, 王敦博, 黎 倩, 颜 源, 于清江, 高世勇, 矫淑杰 (139)
- 新型绿色发光材料 $(\text{Ce}_{0.67}\text{Tb}_{0.33})\text{MgAl}_{11}\text{O}_{19}:\text{Mn}^{2+}$ 的合成及其光学性能
..... 夏章良, 梁玉军, 黄文珠, 李云丽, 杨 帆, 李雪静 (144)
- $\text{NaYF}_4:\text{Yb}, \text{Er}@\text{SiO}_2$ 与 Au 纳米粒子荧光共振能量传递系统的构建与研究 涂浪平, 孔祥贵 (149)
- p 型 CuInS_2 花状微球的液相可控合成及其电学性能表征
..... 吴义良, 周国方, 王文坚, 张梓晗, 吴春艳 (154)
- $\text{NaYF}_4:\text{Yb}^{3+}, \text{Tm}^{3+}$ 负载壳聚糖微球的制备及发光性质研究
..... 张敬迎, 侯光辉, 石建军, 熊腾杰, 刘钟馨 (160)
- 对称平面特异材料中的类 Fano 谐振 曹 扬 (165)
- $\text{Gd}_2(\text{WO}_4)_3:\text{Eu}^{3+}, \text{Sm}^{3+}$ 纳米晶的制备及 Sm^{3+} 对 Eu^{3+} 特征发射的敏化作用
..... 何冬丽, 吕树臣, 曲秀荣, 毛金伟, 孟庆裕 (171)
- $\text{YAl}_3(\text{BO}_3)_4:\text{Dy}^{3+}$ 荧光粉的制备及发光性能
..... 肖林久, 刘娇娜, 谢 颖, 王 刚, 陈永杰, 李文泽, 耿秀娟 (178)

· 器件制备及器件物理 ·

- 无损型及损耗型分布布拉格反射镜光学特性的传输矩阵理论分析及优化 王云华, 薄报学 (184)
- 基于新型透明导电电极的有机光伏器件的制备与表征
..... 田苗苗, 李春杰, 贺小光, 于立军, 祁金刚, 曲雪松, 孙晓园, 范 翊, 王 宁 (192)
- $\text{Cu}_2\text{O}-\text{ZnO}$ 异质结太阳能电池的制备及光电性能研究
..... 尚明伟, 刘春廷, 孙 琼, 张 乾, 董红周, 董立峰 (197)
- $\text{Cu}_2\text{O}-\text{ZnO}$ 太阳能电池的研究进展及磁控溅射法制备 $\text{Cu}_2\text{O}-\text{ZnO}$ 异质结的研究 杨美佳, 朱丽萍 (202)
- 溶胶凝胶法制备透明 IZO 薄膜晶体管 信恩龙, 李喜峰, 张建华 (208)
- 一种基于伪失效寿命的 LED 可靠性快速评价方法 郭伟玲, 樊 星, 崔德胜, 吴国庆, 俞 鑫 (213)
- 透明导电 ZnO 薄膜的电化学制备及性能研究
..... 孙芳芳, 贺蕴秋, 李一鸣, 李 乐, 储晓菲, 黄河洲 (218)
- 400 nm 高性能紫光 LED 的制作与表征
... 王东盛, 郭文平, 张克雄, 梁红伟, 宋世巍, 杨德超, 申人升, 柳 阳, 夏晓川, 骆英民, 杜国同 (225)

· 发光学应用及交叉前沿 ·

- 不同发酵时间普洱茶的表面增强拉曼光谱鉴别分析 郑 玲, 赵燕平 (230)
- 高光谱遥感器的光谱定标 金 辉, 姜会林, 郑玉权, 马洪涛 (235)
- 激发光的表面等离激元增强效应导致的双光子荧光增强 杨振岭, 方 伟, 杨延强 (240)
- 液晶调制光子晶体微腔光衰减器 周建伟, 梁静秋, 梁中翥, 王维彪 (245)

期刊基本参数: CN 22-1116/O4 * 1980 * m * A4 * 120 * zh + en * P * ¥40.00 * 1000 * 22 * 2013-02 责任编辑: 王淑平

CHINESE JOURNAL OF LUMINESCENCE

Vol. 34 No. 2

February 2013

CONTENTS

• Synthesis and Properties of Materials •

- Synthesis of $\text{Sr}_3(\text{PO}_4)_2\text{Cl}:\text{Ce}^{3+}$ Phosphors by Hydrothermal and Post-annealing Method
..... XIE Dong-hua, CHEN Xiang-ying, CHEN Chong (123)
- Luminescent Properties of New $\text{MgAl}_2\text{O}_4/\text{Ce}:\text{YAG}$ Transparent Ceramics for White LED Applications
..... HE Long-fei, FAN Guang-han, LEI Mu-yun, et al. (133)
- Preparation and Characterization of Cu-doped ZnO Nano Materials
..... LAN Fei-fei, WANG Jin-zhong, WANG Dun-bo, et al. (139)
- Synthesis and Photoluminescence Properties of A Novel Green-emitting Phosphor $(\text{Ce}_{0.67}\text{Tb}_{0.33})\text{MgAl}_{11}\text{O}_{19}:\text{Mn}^{2+}$
..... XIA Zhang-gen, LIANG Yu-jun, HUANG Wen-zhu, et al. (144)
- Studies on The Constructure Based on Luminescence Resonant Energy Transfer Between $\text{NaYF}_4:\text{Yb},\text{Er}@\text{SiO}_2$
Nanostructure as Donors and Gold Nanoparticle as Acceptors TU Lang-ping, KONG Xiang-gui (149)
- Solution-based Controllable Synthesis of p-type CuInS_2 Flower-like Microspheres and Their Electrical Characterization
..... WU Yi-liang, ZHOU Guo-fang, WANG Wen-jian, et al. (154)
- Fabrication and Luminescent Property of $\text{NaYF}_4:\text{Yb}^{3+},\text{Tm}^{3+}$ Loaded Chitosan Microspheres
..... ZHANG Jing-ying, HOU Guang-hui, SHI Jian-jun, et al. (160)
- Fano-like Resonances in Symmetric Planar Metamaterials CAO Yang (165)
- Preparation of Nanocrystalline $\text{Gd}_2(\text{WO}_4)_3:\text{Eu}^{3+},\text{Sm}^{3+}$ and The Sensitization of Sm^{3+} to Eu^{3+} Characteristic Emission
..... HE Dong-li, LYU Shu-chen, QU Xiu-rong, et al. (171)
- Preparation and Luminescence Properties of $\text{YAl}_3(\text{BO}_3)_4:\text{Dy}^{3+}$ Phosphors
..... XIAO Lin-jiu, LIU Jiao-na, XIE Ying, et al. (178)

• Device Fabrication & Physics •

- Optical Analysis and Optimization of Lossless and Lossy Distributed Bragg Reflector Using Transfer Matrix Method
..... WANG Yun-hua, BO Bao-xue (184)
- Preparation and Characteristics of Organic Solar Cells Based on Novel Transparent Conducting Oxides
..... TIAN Miao-miao, LI Chun-jie, HE Xiao-guang, et al. (192)
- Fabrication and Photovoltaic Properties of $\text{Cu}_2\text{O}/\text{ZnO}$ p-n Heterojunction Solar Cells
..... SHANG Ming-wei, LIU Chun-ting, SUN Qiong, et al. (197)
- Advance in $\text{Cu}_2\text{O}-\text{ZnO}$ Solar Cells and Investigation of $\text{Cu}_2\text{O}-\text{ZnO}$ Heterojunction Fabricated by Magnetron Sputtering
..... YANG Mei-jia, ZHU Li-ping (202)
- Fabrication of Transparent Indium Zinc Oxide Thin Film Transistors by Sol-gel Technology
..... XIN En-long, LI Xi-feng, ZHANG Jian-hua (208)
- Rapid Reliability Evaluation Method of LED Based on Pseudo-failure Lifetime
..... GUO Wei-ling, FAN Xing, CUI De-sheng, et al. (213)
- Transparent Conductive Properties of ZnO Thin Films Prepared by Electrochemical Deposition
..... SUN Fang-fang, HE Yun-qiu, LI Yi-ming, et al. (218)
- Fabrication of High-performance 400 nm Violet Light Emitting Diode
..... WANG Dong-sheng, GUO Wen-ping, ZHANG Ke-xiong, et al. (225)

• Luminescence Applications and Interdisciplinary Fields •

- Identification of Pu'er Teas with Different Fermentation Time by Surface-enhanced Raman Scattering Technology
..... ZHENG Ling, ZHAO Yan-ping (230)
- Spectral Calibration of The Hyperspectral Optical Remote Sensor
..... JIN Hui, JIANG Hui-lin, ZHENG Yu-quan, et al. (235)
- Two-photon-excited Fluorescence Enhancement Caused by Surface Plasmon Enhanced Exciting Light
..... YANG Zhen-ling, FANG Wei, YANG Yan-qiang (240)
- Tunable Two-dimensional Photonic Crystals Cavity Attenuator Using Liquid-crystal
..... ZHOU Jian-wei, LIANG Jing-qiu, LIANG Zhong-zhu, et al. (245)

Editorial Board of Chinese Journal of Luminescence

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