

发光学报

FAGUANG XUEBAO

第32卷 第1期 2011年1月

目 次

· 特邀报告 ·

Novel Field Emission Organic Light Emitting Diodes with Dynode

..... Meiso YOKOYAMA, LI Chi-Shing, SU Shui-hsiang (1)

· 材料合成及性能研究 ·

$\text{Ca}_4\text{Y}_6\text{Si}_6\text{O}_{25}:\text{Eu}^{2+}$ 绿色荧光粉的发光特性

..... 杨志平, 闻建伟, 刘玉峰, 李立虎, 杨艳民, 周东站, 马淑媛, 于红伟 (7)

Ho^{3+} 掺杂的 $\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_3$ 厚膜的发光特性 吴继清, 章天金, 汪竞阳, 余琳, 潘瑞琨 (12)

铈铕掺杂氯硅酸镁钙体系的相对光谱功率分布与色坐标定位
..... 王木, 刘文华, 张竞辉, 李长敏, 林海, 赵昕 (16)

超声喷雾共沉淀法制备 Eu^{3+} 掺杂纳米 ZnO 粉体 和宁宁, 邱杨, 夏海平, 王冬杰 (21)

量子棒中强耦合杂质束缚极化子的振动频率 王东民, 肖景林 (27)

新型双 β -二酮、邻菲罗啉和铕(Ⅲ)三元配合物的合成与发光
..... 刘万云, 霍平, 伍晓春, 梅光泉 (33)

$\text{SrIn}_2\text{O}_4:\text{Sm}^{3+}$ 红色荧光粉的发光特性 刘海燕, 孙明生, 杨志平, 杨艳民 (38)

· 器件制备及器件物理 ·

Fe_3O_4 p型掺杂对有机电致发光器件性能的提高

..... 张丹丹, 刘磊石, 陈路, 王海, 刘式墉, 冯晶 (42)

小发散角垂直腔面发射激光器的设计与制作
..... 张岩, 宁永强, 秦莉, 孙艳芳, 刘云, 王立军 (47)

970 nm 反射式垂直腔半导体光放大器的设计与制作
..... 孙成林, 田振华, 贾丽华, 曹军胜, 秦莉, 邹峰利, 宁永强, 王立军 (53)

一维可调谐非磁化等离子体光子晶体的滤波特性 章海锋, 郑建平, 陈年凤 (58)

彩色视觉测量中的 LED 照明系统设计 贾果欣, 曲兴华, 梁海昱, 祝振敏 (64)

调谐耦合场作用下的电磁诱导透明和增益 李晓莉, 张连水, 杨悦, 杨丽君 (70)

固化条件对太阳电池 EVA 胶膜交联度的影响 何卓铭, 金尚忠, 岑松原 (78)

催化剂对纳米非晶碳膜场发射性能的影响 张新月, 曾凡光, 姚宁, 张兵临 (83)

· 光谱分析 ·

大豆愈伤组织超弱光子辐射的双指数模型 习岗, 杨运经, 李少华, 张艳 (93)

基于延迟荧光光谱 F_{685}/F_{730} 温度响应曲线的植物耐热性评价
..... 李瑛, 许文海, 董丽丽, 邢达 (94)

光谱探针猩红 S 与牛血清白蛋白结合的发光光谱
..... 刘保生, 薛春丽, 王晶, 杨超, 吕运开 (107)

CHINESE JOURNAL OF LUMINESCENCE

Vol. 32 No. 1 January 2011

CONTENTS

• Invited Paper •

- Novel Field Emission Organic Light Emitting Diodes with Dynode *Meiso YOKOYAMA, LI Chi-Shing, SU Shui-hsiang* (1)

• Synthesis and Properties of Materials •

- Luminescence Property of $\text{Ca}_4\text{Y}_6\text{Si}_6\text{O}_{25}:\text{Eu}^{2+}$ Green Phosphor *YANG Zhi-ping, WEN Jian-wei, LIU Yu-feng, et al.* (11)

- Luminescence Properties of $\text{Ho}^{3+}:\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_3$ Thick Films *WU Ji-qing, ZHANG Tian-jun, WANG Jing-yang, et al.* (15)

- Relative Spectral Power Distribution and Emission Color Coordinates of Ce^{3+} and Eu^{2+} Doped Calcium Magnesium Chlorosilicate System *WANG Mu, LIU Wen-hua, ZHANG Jing-hui, et al.* (20)

- Preparation of Eu^{3+} -doped Nano-ZnO by Ultrasonic Atomization and Co-precipitation Method *HE Ning-ning, QIU Yang, XIA Hai-ping, et al.* (25)

- Vibrational Frequency of Strong-coupling Impurity Bound Polaron in Quantum Rods *WANG Dong-min, XIAO Jing-lin* (31)

- Synthesis, Luminescent Properties of New Ternary Complex of Eu^{3+} with Bis(β -diketone) and 1,10-phenanthroline *LIU Wan-yun, HUO Ping, WU Xiao-chun, et al.* (37)

- Luminescent Properties of Sm^{3+} Doped SrIn_2O_4 Red Emission Phosphor *LIU Hai-yan, SUN Ming-sheng, YANG Zhi-ping, et al.* (41)

• Device Fabrication and Physics •

- Improvement of The Performances of Organic Light-emitting Devices Using Fe_3O_4 as p-dopant *ZHANG Dan-dan, LIU Lei-shi, CHEN Lu, et al.* (46)

- Design and Fabrication of Vertical-cavity Surface-emitting Laser with Small Divergence *ZHANG Yan, NING Yong-qiang, QIN Li, et al.* (52)

- Design and Fabrication of 970 nm Reflection-mode Vertical Cavity Semiconductor Optical Amplifiers *SUN Cheng-lin, TIAN Zhen-hua, JIA Li-hua, et al.* (57)

- Filtering Properties of One Dimension Tunable Unmagnetized Plasma Photonic Crystals *ZHANG Hai-feng, ZHENG Jian-ping, CHEN Nian-feng* (63)

- Design of The LED Light Source for Color Vision Measurement *JIA Guo-xin, QU Xing-hua, LIANG Hai-yu, et al.* (69)

- Electromagnetically Induced Transparency and Gain under The Effect of Tuned Coupling Field *LI Xiao-li, ZHANG Lian-shui, YANG Yue, et al.* (77)

- Effects of Curing Conditions on Solar Cell EVA Film Cross-linking Degree *HE Zhuo-ming, JIN Shang-zhong, CEN Song-yuan* (82)

- Effects of Catalyst on The Field Emission Properties of Nano-amorphous Carbon Films *ZHANG Xin-yue, ZENG Fan-guang, YAO Ning, et al.* (86)

• Spectral Analysis •

- Double-exponential Model of Ultraweak Photon Emission of Soybean Callus *XI Gang, YANG Yun-jing, LI Shao-hua, et al.* (87)

- The Application of The F_{685}/F_{730} Ratio of Delayed Fluorescence Spectrum Temperature Curve in Heat Tolerance Evaluation *LI Ying, XU Wen-hai, DONG Li-li, et al.* (99)

- Luminescence Spectroscopy of Conjugation Reaction between Bovine Serum Albumin and Spectroscopic Probe Ponceau S *LIU Bao-sheng, XUE Chun-li, WANG Jing, et al.* (100)

Editorial Board of Chinese Journal of Luminescence

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