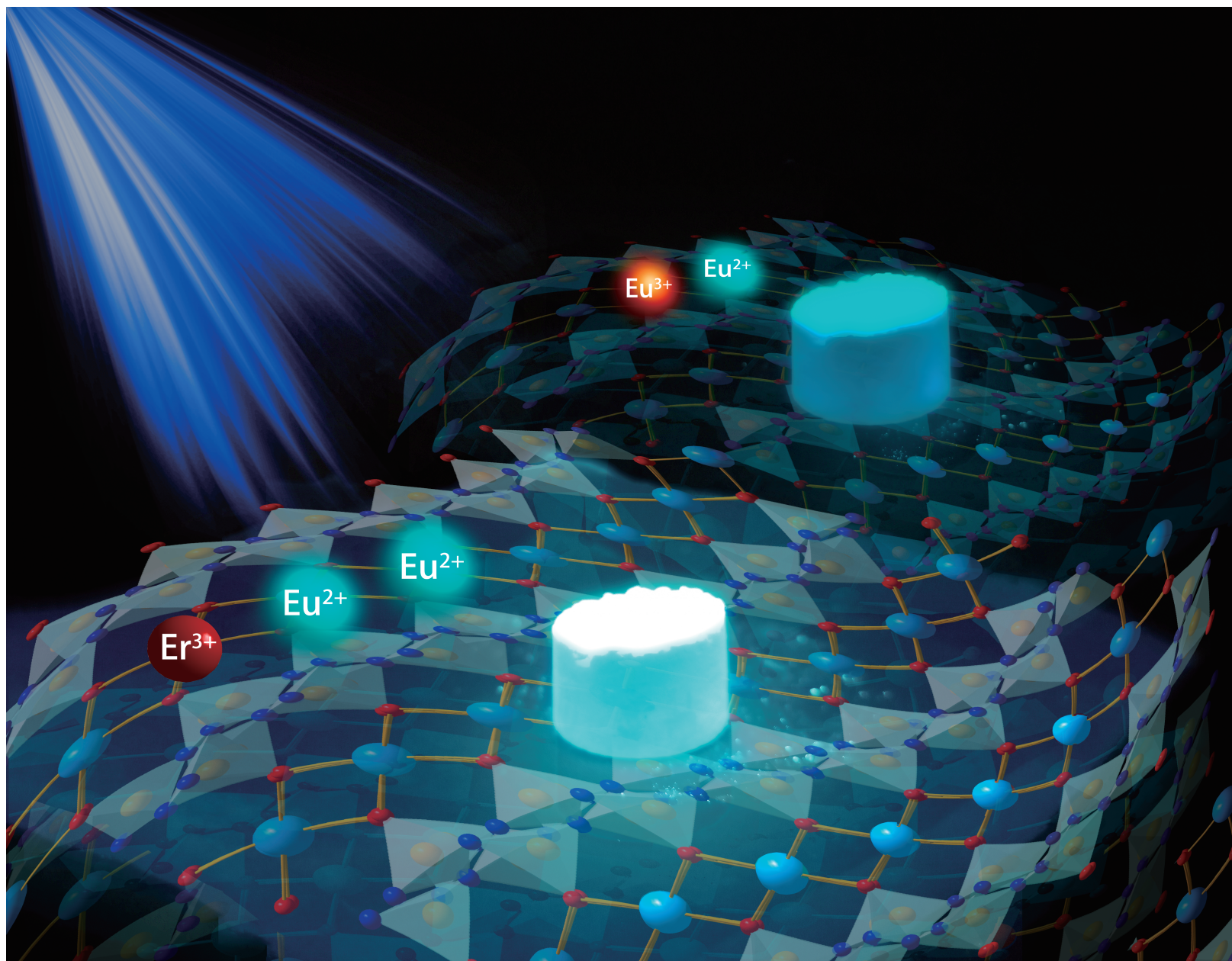


# 发光学报



www.fgxb.org



科学出版社



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

主办  
出版



# 发 光 学 报

FAGUANG XUEBAO

第 42 卷 第 9 期 2021 年 9 月

## 目 次

### · 封面文章 ·

Er<sup>3+</sup> 共掺增强 BaSi<sub>2</sub>O<sub>2</sub>N<sub>2</sub>: Eu<sup>2+</sup> 发光

..... 刘雪晴, 贺 帅, 张亮亮, 潘国徽, 武华君, 吴 昊, 张家骅 (1323)

### · 特邀综述 ·

CsPbX<sub>3</sub> (X = Cl, Br, I) 钙钛矿量子点玻璃制备及其应用研究进展

..... 林继栋, 王志斌, 张瑞丹, 黄 烽, 陈大钦 (1331)

Mn<sup>4+</sup> 激活的典型 LED 红色荧光粉研究进展

..... 章 伟, 何梦婷, 乔旭升, 樊先平 (1345)

### · 材料合成及性能 ·

高对称性晶体结构中实现 Bi<sup>3+</sup> 窄带蓝光发射..... 魏 忆, 李国岗 (1365)

多铝酸盐宽带青色荧光粉发光特性..... 李婉璐, 戴鹏鹏 (1376)

基于热活化延迟荧光双发射的有机电子给体-受体型材料研究进展

..... 曹云锋, 李旭萍, 卢建军 (1386)

Cs<sub>0.05</sub>FA<sub>0.79</sub>MA<sub>0.16</sub>PbI<sub>2.52</sub>Br<sub>0.48</sub> 钙钛矿薄膜的变温光致发光特性

..... 张 琼, 吴悦嘉, 冯艳琴, 孙立伟, 戴 俊 (1396)

基于深亚波长双层媒质的钙钛矿量子点荧光增强

..... 赵文超, 文政绩, 周子骥, 谈 冲, 李世民, 孙 艳, 戴 宁, 郝加明 (1403)

连续可调宽光谱荧光玻璃的制备及性能..... 陈 畅, 张 琦, 王大校, 苏梦磊, 韦 玮 (1412)

### · 器件制备及器件物理 ·

基于光纤 Bragg 光栅 F-P 滤波器及复合双环腔滤波器的单纵模掺铈光纤激光器

..... 韩文国, 延凤平, 冯 亭, 程 丹, 李 挺, 白卓娅,  
秦 齐, 杨丹丹, 张鲁娜, 郭 颖, 王 伟, 关 彪, 张 璇 (1419)

### · 发光学应用及交叉前沿 ·

一种高选择性萘甲酰脲铜离子探针合成及其在吸附中的应用

..... 王会镇, 薛松松, 周 霞, 刘家琴, 解正峰 (1427)

### · 发光产业及技术前沿 ·

大功率倒装 LED 芯片陶瓷封装器件顶面微区发光均匀性

..... 李晓珍, 熊传兵, 汤英文, 郝冬辉 (1436)

# CHINESE JOURNAL OF LUMINESCENCE

Vol. 42 No. 9

September 2021

## CONTENTS

### • Cover Story •

Enhanced Luminescence of  $\text{BaSi}_2\text{O}_2\text{N}_2:\text{Eu}^{2+}$  By Co-doping  $\text{Er}^{3+}$

..... *LIU Xue-qing, HE Shuai, ZHANG Liang-liang, PAN Guo-hui, WU Hua-jun, WU Hao, ZHANG Jia-hua* (1323)

### • Invited Review •

Research Progresses in Preparation and Applications of  $\text{CsPbX}_3$  ( $X = \text{Cl}, \text{Br}, \text{I}$ ) Perovskite Quantum Dots-embedded Glass

..... *LIN Ji-dong, WANG Zhi-bing, ZHANG Rui-dan, HUANG Feng, CHEN Da-qin* (1331)

Research Progress of  $\text{Mn}^{4+}$  Activated Typical LED Red Phosphors

..... *ZHANG Wei, HE Meng-ting, QIAO Xu-sheng, FAN Xian-ping* (1345)

### • Synthesis and Properties of Materials •

Narrow-band Blue Emission of  $\text{Bi}^{3+}$  Based on High Crystal Structure Symmetry

..... *WEI Yi, LI Guo-gang* (1365)

Luminescence Characteristics of Polyaluminate Broadband Cyan Phosphor

..... *LI Wan-lu, DAI Peng-peng* (1376)

Research Progress of Thermally Activated Delayed Fluorescence Materials with Dual-emission Based on Donor-acceptor System

..... *CAO Yun-feng, LI Xu-ping, LU Jian-jun* (1386)

Temperature-dependent Photoluminescence Properties of  $\text{Cs}_{0.05}\text{FA}_{0.79}\text{MA}_{0.16}\text{PbI}_{2.52}\text{Br}_{0.48}$  Perovskite Thin Film

..... *ZHANG Qiong, WU Yue-jia, FENG Yan-qin, SUN Li-wei, DAI Jun* (1396)

Photoluminescence Enhancement of  $\text{CsPbBr}_3$  Perovskite Quantum Dots Based on Deep-subwavelength Bilayer Media

..... *ZHAO Wen-chao, WEN Zheng-ji, ZHOU Zi-ji, TAN Chong, LI Shi-min, SUN Yan, DAI Ning, HAO Jia-ming* (1403)

Preparation and Performance of Continuous Tunable Broadband Fluorescent Glass

..... *CHEN Chang, ZHANG Qi, WANG Da-xiao, SU Meng-lei, WEI Wei* (1412)

### • Device Fabrication and Physics •

Single-longitudinal Mode Thulium-doped Fiber Laser Based on Fabry-Pérot Fiber Bragg Grating Filter and Passive Compound Double-rings Cavity

..... *HAN Wen-guo, YAN Feng-ping, FENG Ting, CHENG Dan, LI Ting, BAI Zhuo-ya, QIN Qi, YANG Dan-dan, ZHANG Lu-na, GUO Ying, WANG Wei, GUAN Biao, ZHANG Xuan* (1419)

### • Luminescence Applications and Interdisciplinary Fields •

Synthesis of Highly Selective Copper Ion Probe and Its Application in Adsorption

..... *WANG Hui-zhen, XUE Song-song, ZHOU Xia, LIU Jia-qin, XIE Zheng-feng* (1427)

### • Luminescence Industry and Technology Frontier •

Uniformity of Light Emission in Micro-area on Mesa of High-power Flip-chip LED Devices with Ceramic Packaging

..... *LI Xiao-zhen, XIONG Chuan-bing, TANG Ying-wen, HAO Dong-hui* (1436)

Editorial Board of Chinese Journal of Luminescence

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