

目 次

特邀稿

过渡金属硫族化合物的可控生长：机理分析与模拟挑战

..... 曾雨涵, 蒋梓硕, 曾国华, 杨宇鹏, 殷子凡, 廖风(1)

应用技术

基于 $\text{Ti}_3\text{C}_2\text{T}_x$ 薄膜基底的制备及其在多巴胺拉曼检测中的应用 曹志杰, 张玲(29)

s 光和 p 光在反射过程中的相位延迟和补偿方法研究 徐鸿帆, 林剑(38)

光学系统

微光夜视头盔成像光学系统的设计与研制 张军光, 罗圆圆, 曹来书, 黄启禄, 吴富宝(48)

设计与研究

振动强耦合对白蛋白光谱特性和功能性质的影响 储亚豪, 张峰(54)

光纤激光器产生高重复频率圆柱矢量光束的研究 邹驰炫, 袁帅, 吴广益, 陈俊宇, 谭雪(60)

薄层 MoS_2 光电导效应的太赫兹近场显微研究 李学宝, 游冠军(66)

薄膜

高陡度宽透射二向色镜的研制 董明, 刘博文, 白皓宇, 黄宏宇, 林晓敏, 秦瑞, 黎冰, 陈静(74)

综述

振动强耦合的量子生物调控机制与应用前沿 袁鸣, 王晓伟, 路薇薇, 赵欣敏(81)

极紫外透射薄膜滤片研究进展 李笑然, 陈俊, 陈逸文(90)

CONTENTS

INVITED PAPERS

Controllable growth of transition metal chalcogenide: mechanism analysis and simulation challenges

..... ZENG Yuhan, JIANG Zishuo, ZENG Guohua, YANG Yupeng, YIN Zifan, LIAO Feng (1)

APPLICATION TECHNOLOGY

Preparation of $\text{Ti}_3\text{C}_2\text{T}_x$ films substrate and its application in Raman detection of dopamine

..... CAO Zhijie, ZHANG Ling (29)

Research on phase delay and compensation method of s-polarized and p-polarized-light during reflection

..... XU Hongfan, LIN Jian (38)

OPTICAL SYSTEM

Low-light-level night vision helmet imaging system design and development

..... ZHANG Junguang, LUO Yuanyuan, CAO Laishu, HUANG Qilu, WU Fubao (48)

DESIGN AND RESEARCH

The impact of vibrational strong coupling on the spectral characteristics and functional properties of albumin

..... CHU Yahao, ZHANG Feng (54)

Study of fiber laser generating cylindrical vector beam with high repetition rate

..... ZOU Chixuan, YUAN Shuai, WU Guangyi, CHEN Junyu, TAN Xue (60)

Terahertz near-field microscopic study of photoconductive effect of thin layer MoS_2 LI Xuebao, YOU Guanjun (66)

FILM

Development of high-steepness and wide-transmission dichroic mirror

..... DONG Ming, LIU Bowen, BAI Haoyu, HUANG Hongyu, LIN Xiaomin, QIN Rui, LI Bing, CHEN Jing (74)

REVIEW

Vibrational strong coupling: frontiers in quantum biological regulatory mechanisms and applications

..... YUAN Ming, WANG Xiaowei, LU Weiwei, ZHAO Xinmin (81)

Research progress of transmissive thin-film filters in the extreme ultraviolet ranges

..... LI Xiaoran, CHEN Jun, CHEN Yiwu (90)