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目 次

综 述

逆向设计的硅基片上功率分束器
..... 马汉斯, 杜 特, 姜鑫鹏, 杨俊波 230086

科研论文

利用离焦光斑的离轴望远镜失调校正方法研究
..... 田思恒, 黄永梅, 徐杨杰, 南新元,
吴琼雁, 向春生, 唐 薇 230040

渐进式多粒度 ResNet 车型识别网络
..... 徐胜军, 荆 扬, 李海涛,
段中兴, 刘福友, 李明海 230052

轴注意力引导的锚点分类车道线检测
..... 罗 鑫, 黄影平, 梁振明 230079

偏振激光照明对多层薄膜结构成像对比度影响
..... 张子建, 王天义, 徐 欣, 王吉祥,
张 欣, 张若冰, 史国华, 叶 虹 230089

基于飞秒激光打印的二氧化钽光谱动态调控结构
..... 朱家琦, 吴世宇, 宋世超, 曹耀宇 230095

TiCN 作为可饱和吸收体的 2.8 μm 被动调 Q 锁
模光纤激光器
..... 叶珊珊, 黄海波, 陈颂元,
陶俊哲, 文字轩, 高伟清 230107

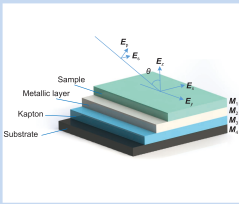
激光无线电能传输系统对准环节设计
..... 康劲松, 周艳萍, 孙梁榕, 孔凡伟, 吕艳亭 230109

多特征聚合的红外-可见光行人重识别
..... 郑海君, 葛 斌, 夏晨星, 郇 成 230136

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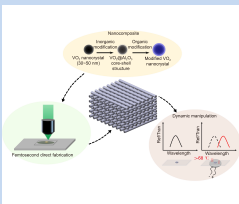


Effect of polarized laser illumination on imaging contrast of multilayer thin film structure

230089

Zhang Zijian, Wang Tianyi, Xu Xin, Wang Jixiang, Zhang Xin, Zhang Ruobing, Shi Guohua, Ye Hong

In order to further improve the imaging contrast and positioning accuracy of thin film samples, a theoretical model combining polarization illumination and OMLIT was proposed. This model was written in the matrix formalism and the propagation of polarized light through different layers with various incident angles was simulated.

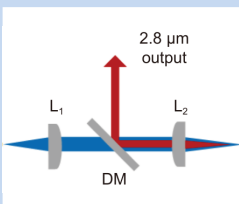


Femtosecond laser printing of vanadium dioxide based optical meta-structures with tunable spectra engineering

230095

Zhu Jiaqi, Wu Shiyu, Song Shichao, Cao Yaoyu

A photosensitive polymer nanocomposite with tunable effective refractive index was prepared by incorporating VO_2 nanocrystals into methacrylate monomers, which takes advantages of the phase change characteristics of VO_2 and the photopolymerization properties of the monomer.

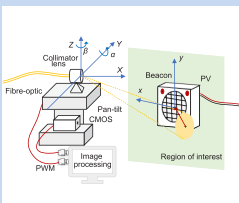


2.8 μm passively Q-switched mode-locked fiber laser using TiCN as saturable absorber

230107

Ye Shanshan, Huang Haibo, Chen Songyuan, Tao Junzhe, Wen Yuxuan, Gao Weiqing

A 2.8 μm passively Q-switched mode-locked erbium-doped fluoride fiber laser based on material saturable absorption was reported in this paper. Under the pump power of 650 mW, the maximum average output power of 25.83 mW was obtained, and the slope efficiency was about 7.2%.

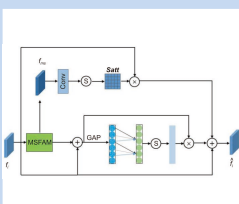


Design of alignment subsystem for laser wireless power transmission system

230109

Kang Jinsong, Zhou Yanping, Sun Liangrong, Kong Fanwei, Lv Yanting

Laser power transfer imposes high requirements on alignment accuracy, stability, and real-time performance. Therefore, a laser alignment system design method was proposed, and optimizations were made to the region of interest extraction and image preprocessing methods.



Infrared-Visible person re-identification based on multi feature aggregation

230136

Zheng Haijun, Ge Bin, Xia Chenxing, Wu Cheng

The existing methods ignore the relationship between adjacent features and the influence of multi-scale information on global features. Here, an infrared-visible person re-identification method (MFANet) based on multi-feature aggregation was proposed to solve the shortcomings of existing methods.

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