

# Chinese Optics Letters

Volume 18  
Number 4  
April 2020  
col.clp.ac.cn

## Fiber Optics and Optical Communications

Applications of weakly-coupled few-mode fibers [On the Cover] *Huiyuan Liu, He Wen, and Guifang Li* 040601

## Integrated Optics

Ultra-short plasmonic polarization beam splitter-rotator using a bent directional coupler *Bing Bai, Li Pei, Jingjing Zheng, Tigang Ning, and Jing Li* 041301

## Lasers and Laser Optics

High repetition rate passively  $Q$ -switched laser on Nd:SRA at 1049 nm with MXene  $\text{Ti}_3\text{C}_2\text{T}_x$  *Mengfei Zhao, Zhongmian Zhang, Xiaoyue Feng, Mengyu Zong, Jie Liu, Xiaodong Xu, and Han Zhang* 041401

Coherent beam combination far-field measuring method based on amplitude modulation and deep learning *Renqi Liu, Chun Peng, Xiaoyan Liang, and Ruxin Li* 041402

Two-dimensional tellurene nanosheets as saturable absorber of passively  $Q$ -switched Nd:YAG solid-state laser *Tianhong Tang, Fang Zhang, Mengxia Wang, Zhengping Wang, and Xinguang Xu* 041403

Generation of super-high-order petal-like laser beam using Theon-sieve resonator *Xianghe Guan, Junyong Zhang, Yanli Zhang, and Jianqiang Zhu* 041404

Recent progress in multi-wavelength fiber lasers: principles, status, and challenges [Editors' Pick] *Hualong Chen, Xiantao Jiang, Shixiang Xu, and Han Zhang* 041405

## Biomedical Optics

Bone mineral density value evaluation based on photoacoustic spectral analysis combined with deep learning method *Xue Zhou, Zhibin Jin, Ting Feng, Qian Cheng, Xueming Wang, Yao Ding, Hongchen Zhan, and Jie Yuan* 041701

## Plasmonics and Metamaterials

Metalens for coaxial double wavelength focusing *Jiannong Chen, Baodong Wang, Linwei Zhu, Jing Han, and Qinfeng Xu* 042401

## Optoelectronics

An X- and Ku-band multifunctional radar receiver based on photonic parametric sampling *Lei Yu, Weiwen Zou, Xinwan Li, and Jianping Chen* 042501

*Contents continued*

## Physical Optics

- |   |   |        |
|---|---|--------|
| Hermite–Gaussian beams with sinusoidal vortex phase modulation  | <i>Guanxue Wang, Yue Li, Xinzhi Shan, Yu Miao, and Xiumin Gao</i>                         | 042601 |
| Influence of the source's energy fluctuation on computational ghost imaging and effective correction approaches | <i>Xiaodong Mei, Chenglong Wang, Yami Fang, Ting Song, Wenlin Gong, and Shensheng Han</i> | 042602 |
| Optimization of optical wireless power transfer using near-infrared laser diodes                                | <i>Sung-Man Kim and Hanbit Park</i>   | 042603 |
| Imaging through dynamic scattering media with stitched speckle patterns [Editors' Pick]                         | <i>Xin Wang, Honglin Liu, Meijun Chen, Zhentao Liu, and Shensheng Han</i>                 | 042604 |

## Spectroscopy

- |  |  |        |
|--|--|--------|
| Rapid quantitative detection of mineral oil contamination in vegetable oil by near-infrared spectroscopy | <i>Mantong Zhao, Dawei Zhang, Lulu Zheng, Otto Condiliffe, and Yi Kang</i> | 043001 |
|--|--|--------|

## Thin Films and Optics at Surfaces

- |  |   |        |
|--|---|--------|
| Introduction of Ag nanoparticles by picosecond LIFT to improve the photoelectric property of AZO films | <i>Xiaofang Xu, Jingbo Li, Xiaohan Yang, Sen Pan, and Yong Bi</i> | 043101 |
|--|---|--------|

The color images are shown online.