

# Chinese Optics Letters

Volume 16  
Number 9  
September 10, 2018  
col.opticsx.org

## Detectors

- A proposed approach for detecting terahertz pulses by using double few-cycle laser pulses with opposite carrier envelope phases *Kejia Wang, Xinyang Gu, Zhenwei Zhang, Zhengang Yang, Jinsong Liu, and Shenglie Wang* 090401

## Diffraction and gratings

- Effects of mask-alignment error on point spread function for multi-level Fresnel diffractive lenses *Dun Liu, Shibin Wu, Wei Yang, Lihua Wang, Bin Fan, and Fan Wu* 090501

## Fiber optics and optical communications

- An interferometric phase shift fiber Bragg grating sensing system with greatly reduced background phase noise *Lina Ma, Yu Chen, Zhengliang Hu, Jinxing Huang, Jun Wang, and Shiqing Li* 090601

- Intensity modulated silver coated glass optical fiber refractive index sensor *Zahra Samavati, Alireza Samavati, A. F. Ismail, Mukhlis A. Rahman, and M. H. D. Othman* 090602

- Broad bandwidth SOA-based multiwavelength laser incorporating a bidirectional Lyot filter *Abdul Hadi Sulaiman, Muhammad Zamzuri Abdul Kadir, Nelidya Md Yusoff, Noran Azizan Cholan, Fairuz Abdullah, Ahmad Fauzi Abas, Mohammed Thamer Alresheedi, and Mohd Adzir Mahdi* 090603

- Comparative study on reduced impacts of Brillouin pump depletion and nonlinear amplification in coded DBA-BOTDA *Kai Lin, Xinhong Jia, Huiliang Ma, Cong Xu, Xuan Zhang, and Lei Ao* 090604

## Fourier optics and signal processing

- Characterizing a liquid crystal spatial light modulator at oblique incidence angles using the self-interference method *Zixin Zhao, Yiyi Zhuang, Zhaoxian Xiao, Hangying Zhang, Chen Fan, Hehui Geng, and Hong Zhao* 090701

## Image processing

- On-line beam diagnostics based on single-shot beam splitting phase retrieval *Xi He, Cheng Liu, and Jianqiang Zhu* 091001

## Integrated optics

- A pair of integrated optoelectronic transceiving chips for optical interconnects *Kai Liu, Huize Fan, Yongqing Huang, Xiaofeng Duan, Qi Wang, Xiaomin Ren, Qi Wei, and Shiwei Cai* 091301

Contents continued

## **Lasers and laser optics**

Transmission of 20 Gb/s PAM-4 signal over 20 km optical fiber using a directly modulated tunable DBR laser *Daibing Zhou, Dan Lu, Song Liang, Lingjuan Zhao, and Wei Wang* 091401

Ablation effects and mechanism of sintered silicon carbide ceramics by an ArF excimer laser *Xin Guo, Jinbin Ding, Yi Zhou, and Yu Wang* 091402

## **Nonlinear optics**

Mechanisms and absolute quantum yield of upconversion luminescence of fluoride phosphors *A. A. Lyapin, S. V. Gushchin, A. S. Ermakov, S. V. Kuznetsov, P. A. Ryabochkina, V. Yu. Proydakova, V. V. Voronov, P. P. Fedorov, and M. V. Chernov* 091901

## **Physical optics**

Flexible and high-efficiency generation of arbitrary vector vortex beams on hybrid-order Poincaré sphere *Hao Zhang, Lei Yao, Yuyan Pang, and Jun Xia* 092601

## **Quantum optics**

Improving the resolution in quantum and classical temporal imaging *Junheng Shi, Giuseppe Patera, Youzhen Gui, Mikhail I. Kolobov, Dmitri B. Horoshko, and Shensheng Han* 092701

## **Vision, color, and visual optics**

Design of double-zone aspheric diffractive intraocular lens with extended depth of focus *Yayan Bian, Yongji Liu, and Lai Jiang* 093301

The color images are shown online.