## Chinese Optics Letters

Volume 14 Number 5 May 10, 2016 www.col.org.cn

## Fiber optics and optical communications

Fiber in-line Fabry–Pérot interferometer for simultaneous measurement of reflective index and temperature	Xiaoqi Ni, Ming Wang, and Dongmei Guo	050601
Dual-polarization fiber grating laser-based laser Doppler velocimeter	Zeyuan Kuang, Linghao Cheng, Yizhi Liang, Hao Liang, and Bai-Ou Guan	050602
Combined nonlinear effects for UV to visible wavelength generation in a photonic crystal fiber	Binbin Yan, Jinhui Yuan, Xinzhu Sang, Kuiru Wang, and Chongxiu Yu	050603
Refractive index and temperature sensing characteristics of an optical fiber sensor based on a tapered single mode fiber/polarization maintaining fiber	Zaihang Yang, Hao Sun, Tingting Gang, Nan Liu, Jiacheng Li, Fei Meng, Xueguang Qiao, and Manli Hu	050604
Coherent ONU based on 850 $\mu m\text{-long}$ cavity-RSOA for next-generation ultra-dense access network	Guang Yong Chu, Adolfo Lerín, Iván N. Cano, Victor Polo, and Josep Prat	050605
Temperature-compensated dual-polarization fiber grating laser sensors	Jianming Zhu, Long Jin, Yizhi Liang, Linghao Cheng, and Bai-Ou Guan	050606
Multi-hop relay-based maritime visible light communication	Hyeong-Ji Kim, Samrat Vikramaditya Tiwari, and Yeon-Ho Chung	050607
Direct-detection OFDM-QPSK system performance improvement enabled by DFT spread and receiver-based ISFA algorithm	Jie Su, Xinying Li, and Jianjun Yu	050608
Holography		
Multiframe full-field heterodyne digital holographic microscopy	Xiaoyu Lv, Bin Xiangli, Wenxi Zhang, Zhou Wu, Yang Li, Xinxin Kong, and Zhiliang Zhou	050901
Imaging systems		
Highly efficient mid-infrared metasurface based on metallic rods and plate	Qian Sun, Shuming Wang, Hui Liu, and Shining Zhu	051101
Lasers and laser optics		
Nanoscale-resolved patterning on metal hydra- zone complex thin films using diode-based maskless laser writing in the visible light regime	Kui Zhang, Zhimin Chen, Yongyou Geng, Yang Wang, and Yiqun Wu	051401

Ultra-fast diagnosis of shock waves and plasma at front and rear surfaces in the bulk of fused silica induced by an Nd:YAG pulse laser	Qiang Zhou, Rong Qiu, Yong Jiang, Xiang Gao, Yongjia Yang, Huili Wang, and Huan Ren	051402
Compact phase-lock loop for external cavity diode lasers	Chunhua Wei, Shuhua Yan, Aiai Jia, Yukun Luo, Qingqing Hu, and Zehuan Li	051403
Diode-pumped composite ceramic Nd:YAG planar waveguide amplifier with 327 mJ output at 100 Hz repetition rate	Jiao Liu, Lin Ge, Liwen Feng, Hao Jiang, Hua Su, Tangjian Zhou, Juntao Wang, Qingsong Gao, and Jiang Li	051404
Materials		
Preliminary study of the damage resistance of type I doubler KDP crystals at $532~\mathrm{nm}$	Yinbo Zheng, Lei Ding, Xinda Zhou, Rongsheng Ba, Jing Yuan, Honglei Xu, Xiaoyu Yang, Bo Chen, Jin Na, Yajun Li, and Wanguo Zheng	051601
Investigation of low-temperature cathodoluminescence mechanism of Er-doped GaN thick films by ion implantation	Xiaodan Wang, Yajuan Mo, Xionghui Zeng, Hongmin Mao, Jianfeng Wang, and Ke Xu	051602
Fabrication and characteristics of silicon-rich oxide thin films with controllable compositions	Shiyu Zhang, Quanjun Pan, Xu Fang, Kening Mao, and Hui Ye	051603
Optical design and fabrication		
Parallel fabrication of silicon concave micro- lens array by femtosecond laser irradiation and mixed acid etching	An Pan, Tao Chen, Cunxia Li, and Xun Hou	052201
Optical devices		
Graphene field effect transistor-based terahertz modulator with small operating voltage and low insertion loss	Jingbo Liu, Pingjian Li, Yuanfu Chen, Xinbo Song, Fei Qi, Binjie Zheng, Jiarui He, Qiye Wen, and Wanli Zhang	052301
Tunable multiple plasmon-induced transparency with side-coupled rectangle cavities	Dongdong Liu, Qiubo Fan, Maofei Mei, Jicheng Wang, Yuewu Pan, Daoxiang Teng, and Jian Lu	052302
Spectroscopy		
Study on low-temperature heat treatment of purplish red sapphire	Xiaozhen Han, Yan Kang, Xiao Wu, Xueliang Liu, and Shouguo Guo	053001