

Chinese Optics Letters

Volume 16
Number 1
January 10, 2018
col.opticsx.org

Diffraction and gratings

- Manipulation of the overall polarization orientation in the focal volume of high numerical objectives *Jianmong Chen, Linwei Zhu, and Zhigang Li* 010501

Fiber optics and optical communications

- Design and fabrication of wavelength tunable AWGs based on the thermo-optic effect *Pei Yuan, Yue Wang, Yuanda Wu, Junming An, and Xiongwei Hu* 010601
- Generation of cylindrical vector beams in a mode-locked fiber laser using a mode-selective coupler *Yu Cai, Jie Wang, Jiaojiao Zhang, Hongdan Wan, Zuxing Zhang, and Lin Zhang* 010602
- Effect of power scale of 974 and 633 nm lasers on the induced loss at 633 nm of $\text{Yb}^{3+}/\text{Al}^{3+}$ co-doped silica fiber *Fenghou Xie, Chongyun Shao, Fengguang Lou, Meng Wang, Chunlei Yu, Suyu Feng, and Lili Hu* 010603
- Polarization-maintained coupled optoelectronic oscillator incorporating an unpumped erbium-doped fiber *Tianhua Du, Dan Zhu, and Shilong Pan* 010604
- Robust fiber-based frequency synchronization system immune to strong temperature fluctuation *Xi Zhu, Bo Wang, Yichen Guo, Yibo Yuan, Romeo Gamatham, Bruce Wallace, Keith Grainger, and Lijun Wang* 010605
- Demodulation method combining virtual reference interferometry and minimum mean square error for fiber-optic Fabry–Perot sensors *Xinwang Gui, Michael Anthony Galle, Li Qian, Weilong Liang, Ciming Zhou, Yiwen Ou, and Dian Fan* 010606
- fs-level laser–RF synchronization with a fiber-loop optical-microwave phase detector *Shangyu Si, Liwen Feng, Yanying Zha, Gang Zhao, Fangming Liu, Senlin Huang, and Kexin Liu* 010607
- Suppression of backscattering induced noise by the sideband locking technique in a resonant fiber optic gyroscope *Ning Liu, Yanxiong Niu, Lishuang Feng, Hongchen Jiao, and Xiao Wang* 010608
- Passively Q-switched S-band thulium fluoride fiberlaser with multi-walled carbon nanotube *H. Ahmad and S. A. Reduan* 010609

Integrated optics

- Coupling length variation and multi-wavelength demultiplexing in photonic crystal waveguides *Ziming Wang, Kang Su, Bo Feng, Tianhua Zhang, Weiqing Huang, Weicheng Cai, Wei Xiao, Hongfei Liu, and Jianjun Liu* 011301

Contents continued

Lasers and laser optics

- Ablation enhancement by defocused irradiation assisted femtosecond laser fabrication of stainless alloy *Dongkai Chu, Kai Yin, Xinran Dong, Zhi Luo, Yuxin Song, and Ji'an Duan* 011401
- Experimental investigation of loss and gain characteristics of an abnormal $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ quantum well structure *Yan Jia, Qingnan Yu, Fang Li, Mingqing Wang, Wei Lu, Jian Zhang, Xing Zhang, Yongqiang Ning, and Jian Wu* 011402
- Solid-state green-light-emitting upconversion coherent random laser in macroporous $\text{LiNbO}_3:\text{Er}$ *Fan Shi, Meng Zhao, Chen Jia, Yufeng Zhao, and Shengyong Chen* 011403
- Stress damage process of silicon wafer under millisecond laser irradiation *Zhichao Jia, Tingzhong Zhang, Huazhong Zhu, Zewen Li, Zhonghua Shen, Jian Lu, and Xiaowu Ni* 011404

Optical devices

- Simple Raman scattering sensor integrated with a metallic planar optical waveguide: effective modulation via minor structural adjustment *Yan Lu, Xuefen Kan, Tian Xu, Jinghuai Fang, Meng Wang, Cheng Yin, and Xianfeng Chen* 012301

Quantum optics

- Controllable single-photon transport in an optical waveguide coupled to an optomechanical cavity with a V-type three-level atom *Yuqing Zhang, Zhonghua Zhu, Zhaohui Peng, Chunlei Jiang, Yifeng Chai, and Lei Tan* 012701

Spectroscopy

- Single-turnover and multiple-turnover measurement of phytoplankton photosynthesis parameters using variable light pulse induced fluorescence *Chaoyi Shi, Xianhe Gao, Gaofang Yin, Zhisong Qin, Jingbo Duan, Shuang Chen, and Jun Lu* 013001

Ultrafast optics

- Characterization and application of plasma mirror for ultra-intense femtosecond lasers *Xulei Ge, Yuan Fang, Su Yang, Wenqing Wei, Feng Liu, Peng Yuan, Jingui Ma, Li Zhao, Xiaohui Yuan, and Jie Zhang* 013201

Other areas of optics

- Fusion of the low-light-level visible and infrared images for night-vision context enhancement *Jin Zhu, Weiqi Jin, Li Li, Zhenghao Han, and Xia Wang* 013501