Chinese Optics Letters

Volume 12 Number 12 December 10, 2014 www.col.org.cn

Detectors

Detection of a directly modulated terahertz light with quantum-well photodetector	Qingzhao Wu, Li Gu, Zhiyong Tan, Chang Wang, and Juncheng Cao	120401
Diffraction and Gratings		
High-transmittivity non-periodic sub-wave- length high-contrast grating with large-angle beam-steering ability	Changlian Ma, Yongqing Huang, Xiaofeng Duan, and Xiaomin Ren	120501

Fiber Optics and Optical Communications

Visible light communication based on space- division multiple access optical beamforming	Sung-Man Kim and Hyun-Jun Lee	120601
Simulation study on an improved frequency- doubled triangular-shaped pulse train genera- tor with reduced harmonic distortion	Jing Li, TiGang Ning, Li Pei, Jingjing Zheng, Yueqin Li, Jin Yuan, Yiqun Wang, Chan Zhang, and Hongyao Chen	120602
Novel iteration-free blind phase noise estimation for coherent optical OFDM	Hongliang Ren, Jiaxing Cai, Jin Lu, Hao Wen, Linlin Xue, Yali Qin, Shuqin Guo, Shouli Zhou, and Weisheng Hu	120603
Continuous-wave fiber cavity ring-down mag- netic field sensing method based on frequency- shifted interferometry	Hui Tian, Ciming Zhou, Dian Fan, Yiwen Ou, and Dijia Yin	120604
EFPI-FBG hybrid sensor for simultaneous measurement of high temperature and large strain	Li Xiong, Dongsheng Zhang, Litong Li, and Yongxing Guo	120605
Image Processing		
3D display with uniform resolution and low crosstalk based on two parallax interleaved barriers	Xunbo Yu, Xinzhu Sang, Duo Chen, Peng Wang, Xin Gao, Tianqi Zhao, Binbin Yan, Chongxiu Yu, Daxiong Xu, and Wenhua Dou	121001
Infrared small moving target detection method based on graph matching	Xiabin Dong, Yongbin Zheng, Shengjian Bai, Wanying Xu, and Xinsheng Huang	121002
Imaging Systems		
3D shape measurement of larger complex objects based on fringe cycle correction	Yanjun Fu, Jie Yang, Zhigang Wang, and Haitao Wu	121101
Voltage-controlled optical filter based on electrowetting	Di Wang, Chao Liu, Qionghua Wang, and Xin Zhou	121102

Investigation of self-adaptive algebraic tomography for gas reconstruction in larger temperature range by multiple wavelengths absorption spectroscopy

Instrumentation, Measurement, and Metrology

Ning Li, Xiaojing Lv, and

Chunsheng Weng

Research on calibration method in lab of direct solar channels of Sun photometer	Maopeng Xia, Jianjun Li, Zhengqiang Li, Dongyang Gao, Weiwei Pang, Donghui Li, and Xiaobing Zheng	121201
Dual-thread parallel control strategy for oph- thalmic adaptive optics	Yongxin Yu and Yuhua Zhang	121202
Calibration error analysis of electro-optical detection systems	Qijian Tang, Xiangjun Wang, and Qingping Yang	121203
Lasers and Laser Optics		
Efficient frequency doubling of a telecom 1560 nm laser in a waveguide and frequency stabilization to Rb $\rm D_2$ line	Yashuai Han, Shanlong Guo, Jie Wang, Huifeng Liu, Jun He, and Junmin Wang	121401
Doping transition metal ions as a method for enhancement of ablation rate in femtosecond laser irradiation of silicate glass	Juqiang Fang, Lan Jiang, Qiang Cao, Yanping Yuan, Liangti Qu, Ji'an Duan, and Yongfeng Lu	121402
Laser performance and thermal lens of diode-pumped Nd, Y-codoped: SrF $_2$ single crystals	Jie Guo, Jinfeng Li, Peng Gao, Liangbi Su, Jun Xu, and Xiaoyan Liang	121403
Ultranarrow bandwidth tunable atomic filter via quantum interference-induced polarization rota- tion in Rb vapor	Zheng Tan, Xianping Sun, Jun Luo, Yong Cheng, Xiuchao Zhao, Xin Zhou, Jin Wang, and Mingsheng Zhan	121404
2.1 $\mu \rm m$ Ho:LuAG ceramic laser intracavity pumped by a diode-pumped Tm:YAG laser	Xiaofang Yang, Haitao Huang, Deyuan Shen, Heyuan Zhu, and Dingyuan Tang	121405
Compact and high-energy diode-side-pumped Q-switched Nd:YAG slab laser system for space application	Hailong Yang, Junqing Meng, Xiuhua Ma, and Weibiao Chen	121406
Materials		
Carpet anti-cloak based on the transformation optics	Xuan Liu, Luoning Zhang, Jing Zhou, Jinwei Shi, Zhaona Wang, and Dahe Liu	121601
Medical Optics and Biotechnolo	зy	
Photoacoustic microscopy image resolution enhancement via directional total variation regularization	Zhenghua Wu, Mingjian Sun, Qiang Wang, Ting Liu, Naizhang Feng, Jie Liu, and Yi Shen	121701
Nonlinear Optics		
Stability of elliptic vortex solitons in anisotropic nonlocal media	Lijuan Ge, Ming Shen, Taocheng Zang, and Lu Dai	121901
Steady-state Raman gain in visible and near-infrared waveband of ${\rm SrWO}_4$ and ${\rm BaWO}_4$ crystals	Fang Zhang, Qinghua Zhang, Bo Wang, Dawei Hu, Haohai Yu, Huaijin Zhang, Zhengping Wang, and Xinguang Xu	121902

Scattering

Factors affecting the spectrum of an electro-
magnetic light wave on scattering from a and Xiaoling Ji122901semisoft boundary medium122901

Spectroscopy

Effects of acid anions, major metallic elements, and chlorides on Li detection by DFWM in graphite furnace	Kun Fei, Xuemei Cheng, Xunli Yin, Haowei Chen, Jintao Bai, and Zhaoyu Ren	123001
Thin Films		
Investigation of combined Brillouin gain and loss in a birefringent fiber with applications in sensing	Daisy Williams, Xiaoyi Bao, and Liang Chen	123101
Novel method for simultaneous measurement of film thickness and mass fraction of urea—water solutions	Huinan Yang, Xiaolong Guo, Mingxu Su, and Xiaoshu Cai	123102
X-ray Optics		
Towards one nanometer X-ray focusing: a complex refractive lens design	Zhi Chen, Honglan Xie, Biao Deng, Guohao Du, Huaidong Jiang, and Tiqiao Xiao	123401
Other Areas of Optic		
Effect of temperature on noninvasive blood glu- cose monitoring <i>in vivo</i> using optical coherence tomography-corrigendum	Ya Su, X. Steve Yao, Zhuo Meng, Longzhi Wang, Haimin Yu, and Tiegen Liu	123501
High-power sub-picosecond all-fiber laser source at 1.56 μm -corrigendum	Wen Dai, Youjian Song, Bo Xu, Amos Martinez, Shinji Yamashita, Minglie Hu, and Chyingyue Wang	123502