

Chinese Optics Letters

Volume 13
Number 11
November 10, 2015
www.col.org.cn

Atomic and molecular physics

- Space-adjustable dark magneto-optical trap for efficient production of heteronuclear molecules *Zhujun Zhang, Zhonghua Ji, Zhonghao Li, Jinpeng Yuan, Yanting Zhao, Liantuan Xiao, and Suotang Jia* 110201

Diffraction and gratings

- Concave grating miniature spectrometer with an expanded spectral band by using two entrance slits *Qian Zhou, Jinchao Pang, Xinghui Li, Kai Ni, and Rui Tian* 110501

Fiber optics and optical communications

- Bidirectional erbium-doped fiber amplifiers used in joint frequency and time transfer based on wavelength-division multiplexing technology *Qin Liu, Wei Chen, Dan Xu, Nan Cheng, Fei Yang, Youzhen Gui, Haiwen Cai, and Shensheng Han* 110601
- Adaptive digital backward propagation based on variance of intensity noise *Lin Jiang, Lianshan Yan, Zhiyu Chen, Anlin Yi, Yan Pan, Wei Pan, Bin Luo, and Guifang Li* 110602

Holography

- Full-color and less-speckled modified Gerchberg-Saxton algorithm computer-generated hologram floating in a dual-parabolic projection system *Chien-Yu Chen, Hsuan-Ting Chang, Tsung-Jan Chang, and Chih-Hao Chuang* 110901

Imaging systems

- Optical design for Antarctic Bright Star Survey Telescope *Zhengyang Li, Haipin Lu, and Xiangyan Yuan* 111101

Instrumentation, measurement, and metrology

- Hollow-waveguide-based carbon dioxide sensor for capnography *Bo Xiong, Zhenhui Du, Lin Liu, Zheyuan Zhang, Jinyi Li, and Qiling Cai* 111201

Integrated optics

- Compact, integrated PLZT optical switch array *Guohua Hu, Zhipeng Qi, Binfeng Yun, Ruohu Zhang, and Yiping Cui* 111301

Lasers and laser optics

- Highly sensitive and homogeneous SERS substrate fabricated by a femtosecond laser combined with dewetting *Xudong Tan, Lan Jiang, Jie Hu, Pengjun Liu, Andong Wang, and Yong Lu* 111401

Contents continued

Nanosecond high-pulse energy 1.57 μm KTA optical parametric amplifier with time delay	<i>Huanhuan Li, Xiaolei Zhu, Xiuhuan Ma, Shiguang Li, and Weibiao Chen</i>	111402
Diode-pumped tunable single-longitudinal-mode Tm, Ho:YAG twisted-mode laser	<i>Youlun Ju, Wei Liu, Baoquan Yao, Tongyu Dai, Jing Wu, Jinhe Yuan, Ji Wang, Xiaoming Duan, and Yuezhu Wang</i>	111403
Stable seeder-injected Nd:YAG pulsed laser using a RbTiOPO ₄ phase modulator	<i>Junxuan Zhang, Xiaolei Zhu, Xiuhua Ma, Huaguo Zang, Shiguang Li, Suyong Yin, and Weibiao Chen</i>	111404
Frequency difference lock-in phenomenon's weakening by transverse magnetic field in Y-shaped cavity dual-frequency laser	<i>Guangzong Xiao, Bin Zhang, Zhiguo Wang, Yangying Fu, and Mengfan Gong</i>	111405
Sideband-controllable soliton pulse with bismuth-based erbium-doped fiber	<i>S. J. Tan, Z. C. Tiu, S. W. Harun, and H. Ahmad</i>	111406

Medical optics and biotechnology

Imaging of nerve injury with HSP27 antibody-functionalized photoacoustic nanoprobe	<i>Hongjiang Chen, Zhongjiang Chen, Jankun Xu, and Jun Hu</i>	111701
<i>In vivo</i> imaging of mice auricle vessels using adaptive optical confocal fluorescence microscope	<i>Yi He, Zhibin Wang, Yuanyuan Wang, Ling Wei, Xiqi Li, Jinsheng Yang, Guohua Shi, and Yudong Zhang</i>	111702

Optics at surfaces

Determination of the focused beam waist of lasers with weak measurements	<i>Linguo Xie, Xiaodong Qiu, Jiangdong Qiu, Zhiyou Zhang, Jinglei Du, and Fuhua Gao</i>	112401
--	---	--------

Spectroscopy

Spectral properties of entangled photon pairs generated via quasi-phased-matched spontaneous parametric down-conversion	<i>Maopeng Xia, Jianjun Li, Youbo Hu, Wenyang Sheng, Dongyang Gao, Weiwei Pang, and Xiaobing Zheng</i>	113001
---	--	--------

Ultrafast optics

Long plasma channels and high-voltage discharges induced by strong picosecond laser pulses	<i>Hua Yang, Xiaosong Tang, Xingwei Zhang, Li Zhang, Fuli Tan, Jianheng Zhao, and Chengwei Sun</i>	113201
--	--	--------