

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 μ m KTA optical parametric amplifier with time delay Huanhuan Li, Xiaolei Zhu, Xiuhan Ma, 111402
Shiguang Li, and Weibiao Chen

Diode-pumped tunable single-longitudinal-mode Tm, Ho:YAG twisted-mode laser Youlun Ju, Wei Liu, Baoquan Yao, 111403
Tongyu Dai, Jing Wu, Jinhe Yuan,
Ji Wang, Xiaoming Duan,
and Yuezhu Wang

Stable seeder-injected Nd:YAG pulsed laser Junxuan Zhang, Xiaolei Zhu, 111404
using a RbTiOPO₄ phase modulator Xiuhan Ma, Huaguo Zang, Shiguang Li,
Suyong Yin, and Weibiao Chen

Frequency difference lock-in phenomenon's Guangzong Xiao, Bin Zhang, 111405
weakening by transverse magnetic field in
Y-shaped cavity dual-frequency laser
Zhiguo Wang, Yangying Fu,
and Mengfan Gong

Sideband-controllable soliton pulse with S. J. Tan, Z. C. Tiu, S. W. Harun, 111406
bismuth-based erbium-doped fiber and H. Ahmad

Medical optics and biotechnology

Imaging of nerve injury with HSP27 antibody-functionalized photoacoustic nanoprobes Hongjiang Chen, Zhongjiang Chen, 111701
Jankun Xu, and Jun Hu

In vivo imaging of mice auricle vessels Yi He, Zhibin Wang, Yuanyuan Wang, 111702
using adaptive optical confocal fluorescence
microscope Ling Wei, Xiqi Li, Jinsheng Yang,
Guohua Shi, and Yudong Zhang

Optics at surfaces

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

Spectroscopy

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

Ultrafast optics

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