# Chinese Optics Letters

Volume 14 Number 1 January 10, 2016 www.col.org.cn

## FEATURE ISSUE ON DIGITAL HOLOGRAPHY AND 3D IMAGING

2016 Joint Applied Optics and Chinese Optics Letters Feature Introduction: Digital Hologra- phy and 3D Imaging	Ting-Chung Poon, Changhe Zhou, Partha Banerjee, Hoonjong Kang, and Pascal Picart	010001
Uncertainty, certainty, and relativity (Invited Paper)	Francis T. S. Yu	010002
Progress on waveguide-based holographic video (Invited Paper)	S. McLaughlin, C. Leach, S. Gneiting, V. M. Bove, Jr., S. Jolly, and D. E. Smalley	010003
Generation and optical display of a binary- sampled phase-only hologram	P. W. M. Tsang, YT. Chow, TC. Poon, and JP. Liu	010004
Time-division multiplexing holographic display using angular-spectrum layer-oriented method (Invited Paper)	Yan Zhao, Liangcai Cao, Hao Zhang, Wei Tan, Shenghan Wu, Zheng Wang, Qiang Yang, and Guofan Jin	010005
Anisotropic edge enhancement in optical scan- ning holography with spiral phase filtering	Kelly K. Dobson, Wei Jia, and Ting-Chung Poon	010006
Demonstration of full-parallax three-dimensional holographic display on commercial 4 K flat-panel displayer	Frank C. Fan, Sam Choi, and C. C. Jiang	010007
Dual-wavelength digital holographic phase reconstruction based on a polarization-multi- plexing configuration	Zhe Wang, Yifei Chen, and Zhuqing Jiang	010008
Polarization conversions of diffractive wave plates based on orthogonal circular-polarization holography	Peng Cai, Jianhao Wang, Changshun Wang, Pengfei Zeng, and Hongjing Li	010009
Novel 3D shape measurement method with lower occlusion for the bottom of cavity	Qingyang Wu, Baichun Zhang, Haixin Lin, Xiangjun Zeng, and Zeng Zeng	010010

#### **REGULAR PAPERS**

#### Fiber optics and optical communications

Field-programmable gate array-based largecapacity sensing network with 1642 ultra-weak fiber Bragg gratings

Zhi Wang, Hongqiao Wen,	010601
Chenyuan Hu, Wei Bai, and Yutang Dai	

### Lasers and laser optics

850 nm centered wavelength-swept laser based on a wavelength selection galvo filter	Muhammad Faizan Shirazi, Mansik Jeon, and Jeehyun Kim	011401
Watt-level output rectangular-core neodymium- doped silicate glass fiber laser	Wentao Li, Danping Chen, Qinling Zhou, and Lili Hu	011402
Observation of antiphase dynamics and har- monic resonance in a modulated dual-wave- length laser	Huibin Chen, Ge Zhang, Wenbin Liao, Bingxuan Li, Xiaolei Wang, and Zhenqiang Chen	011403
Grating-assisted fabrication of sub-wavelength ripples during femtosecond laser processing of dielectrics	Yanping Yuan and Jimin Chen	011404
Optically trapping Rayleigh particles by using focused partially coherent multi-rotating ellip- tical Gaussian beams	Xi Peng, Chidao Chen, Bo Chen, Yulian Peng, Meiling Zhou, Xiangbo Yang, and Dongmei Deng	011405
$1.5~\mu{\rm m}$ dual-lateral-mode distributed Bragg reflector laser for terahertz excitation	Limgeng Zhang, Liqiang Yu, Biwei Pan, Dan Lu, Jiaoqing Pan, and Lingjuan Zhao	011406
High-power continuous-wave and high-energy $Q$ -switched miniature Yb:Y <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> crystal lasers	Wenjuan Han, Lisha Wang, Xiaowen Chen, Linhua Xia, Haohai Yu, Huaijin Zhang, and Junhai Liu	011407
Materials		
Tailoring magnetic and electric resonances with dielectric nanocubes for broadband and high-efficiency unidirectional scattering	Yong Wang, Xianghao Zeng, Erchan Yang, Yonghua Lu, Douguo Zhang, and Pei Wang	011601
Nonlinear optics		
Low threshold Raman effect in high power narrowband fiber amplifier	Man Hu, Weiwei Ke, Yifeng Yang, Min Lei, Kai Liu, Xiaolong Chen, Chun Zhao, Yunfeng Qi, Bing He, Xiaojun Wang, and Jun Zhou	011901
Optical devices		
Electro-optic effects induced by the built-in electric field in a {001}-cut silicon crystal	Qi Wang, Zhang Hai, Nian Liu, Baijun Zhao, Xiuhuan Liu, Lixin Hou, Yanjun Gao, Gang Jia, and Zhanguo Chen	012301
Thin films		
Near-infrared lateral photovoltaic effect of epitaxial $LaTiO_{3+\delta}$ films under high pressure	Jianfeng Xi, Kun Zhao, Hao Ni, Wenfeng Xiang, and Lizhi Xiao	013101