

Chinese Optics Letters

Volume 15
Number 5
May 10, 2017
col.opticsx.org

Atomic and molecular physics

- Decreasing the uncertainty of atomic clocks via real-time noise distinguish
Richang Dong, Jinda Lin, Rong Wei, Wenli Wang, Fan Zou, Yuanbo Du, Tingting Chen, and Yuzhu Wang 050201
- Parity chain and parity chain breaking in the two-level cavity quantum electrodynamics system
Jingyun Zhao, Liguang Qin, Xunming Cai, Qiang Lin, and Zhongyang Wang 050202
- Two-color cesium magneto-optical trap with $6S_{1/2}$ - $6P_{3/2}$ - $7S_{1/2}$ (852 nm + 1470 nm) ladder-type system
Jie Wang, Guang Yang, Jun He, and Junmin Wang 050203

Fiber optics and optical communications

- Artificial neural-network-based visible light positioning algorithm with a diffuse optical channel
Heqing Huang, Aiyong Yang, Lihui Feng, Guoqiang Ni, and Peng Guo 050601
- Symbol error rate performance analysis of soft-decision decoded MPPM free space optical system over exponentiated Weibull fading channels
Duan Zhou, Tian Cao, Yintang Yang, Jianxian Zhang, Ping Wang, and Bensheng Yang 050602
- Highly linear W-band receiver front-end based on higher-order optical sideband processing
Haojie Wang, Shangyuan Li, Xiaoping Zheng, Xiaoxiao Xue, Hanyi Zhang, and Bingkun Zhou 050603
- Experimental demonstration of indoor interfered visible light communication system employing successive interference cancellation
Miaofeng Li, Xiang Li, Chao Yang, Qi Yang, and Shaohua Yu 050604

Imaging systems

- Automated segmentation and quantitative study of retinal pigment epithelium cells for photoacoustic microscopy imaging
Lin Li, Qian Li, Cuixia Dai, Qingliang Zhao, Tianhao Yu, Xinyu Chai, and Chuangqing Zhou 051101

Lasers and laser optics

- Laser-accelerated self-assembly of colloidal particles at the water-air interface
Mincheng Zhong, Ziqiang Wang, and Yinmei Li 051401
- Investigation of ellipticity and pump power in a passively mode-locked fiber laser using the nonlinear polarization rotation technique
H. Ahmad, S. I. Ooi, M. Z. A. Razak, S R. Azzuhri, A. A. Jasim, K. Thambiratnam, M. F. Ismail, and M. A. Ismail* 051402

Contents continued

Materials

- Optical and ESR study of Nd:YAG transparent polycrystalline ceramics *Weinan Gao, Yu Shen, Yong Bo, Wenping Zhang, Yong Bi, and Zuyan Xu* 051601
- Effect of various red phosphorescent dopants in single emissive white phosphorescent organic light-emitting devices *Jong Hyun Lim, Jin Wook Kim, Geum Jae Yoon, Ayse Turak, and Woo Young Kim* 051602
- Enhanced spatial terahertz modulation based on graphene metamaterial *Dandan Sun, Mengqi Wang, Yuanyuan Huang, Yizuan Zhou, Mei Qi, Man Jiang, and Zhaoyu Ren* 051603
- Influence of Tm^{3+} ions on the amplification of $Ho^{3+}:^5I_7 \rightarrow ^5I_8$ transition in fluoride glass modified by $Al(PO_3)_3$ for applications in mid-infrared optics *Fangwei Qi, Feifei Huang, Tao Wang, Ruoshan Lei, Junjie Zhang, Shiqing Xu, and Long Zhang* 051604

Medical optics and biotechnology

- Experimental assessment of a 3-D plenoptic endoscopic imaging system *Hanh N. D. Le, Ryan Decker, Axel Krieger, and Jin U. Kang* 051701

Nonlinear optics

- Fourth-harmonic generation via nonlinear diffraction in a 2D $LiNbO_3$ nonlinear photonic crystal from mid-IR ultrashort pulses *Bogin Ma, Kyle Kafka, and Enam Chowdhury* 051901

Quantum optics

- Freezing quantum coherence with weak measurement *Lianwu Yang and Yunjie Xia* 052701

Thin films

- Simultaneous measurements of *s*- and *p*-polarization reflectivity with a cavity ring-down technique employing no polarization optics *Hao Cui, Bincheng Li, Yanling Han, Jing Wang, Chunming Gao, and Yafei Wang* 053101

The 50th Anniversary of the Invention of Optical Fiber Communications

- Datacenter optics: requirements, technologies, and trends (Invited Paper) *Xiang Zhou, Hong Liu, and Ryohei Urata* 120008

TH
da
at
co
bra
sig
qua
clo
sig
fou
noi

Atomic clock
tions^[1-3], prec
ing dark mat
Cesium fount
Atomic Time
quency stand
fountains hav
To date, ato
low 1×10^{-16}
stability of a
Optical lattic
and now hav
stability of th

The referen
to be a const
coupled to th
destroy the
Several comm
ation (BBR) e
etc., are the r
atomic clocks
of great signi
are three alte
ation and imp
parameters o
frequency-sens
errors^[13,14]. (ii)
to obtain a
example, clock