Fiber Optics and Optical Communications

Efficient transmission based on RGB LED lamp for indoor visible light communication
Yongsheng Wu, Aiqing Yang, Lihui Feng, and Yunan Sun

On-line writing identical and weak fiber Bragg grating arrays
Huiyong Guo, Jianquan Tang, Xiaofu Li, Yu Zheng, Hua Yu, and Haibing Yu

Phase-modulation-combination system for the generation of arbitrarily shaped repetition rate pulses
Shiwei Wang, Jun Zheng, and Jianqiu Xu

All-optical format conversion of NRZ-OOK to QPSK and 16QAM signals via XPM in a SOA-MZI
Yueying Zhan, Min Zhang, Mintao Liu, Lei Liu, and Xue Chen

Photonic angle-of-arrival and time-difference-of-arrival measurement based on dual drive 1×2 MZM
Yi Ni, Xuan Kong, Ruizin Wang, Yitang Dai, and Kun Xu

OFDM-WDM LR-PON with ultra-bendable fiber for last-mile distribution of quintuple-play service
Tiago M. F. Alves, Rakesh Sambaraju, Adolfo V. T. Cartazo, and Anthony Ng’oma

Instrumentation, Measurement, and Metrology

Lightweight spatial-multiplexed dual focal-plane head-mounted display using two freeform prisms
Dewen Cheng, Qinfeng Wang, Yongtian Wang, and Guofan Jin

Integrated Optics

Ultra-compact variable optical attenuator based on slow light photonic crystal waveguide
Qiang Zhao, Kaiyu Cui, Xue Feng, Yidong Huang, Yongzhao Li, Dengke Zhang, and Wei Zhang

Lasers and Laser Optics

Frequency stabilization of a 214.5-nm ultraviolet laser
Shiguang Wang, Jianwei Zhang, Zhengbo Wang, Bo Wang, Weizin Liu, Yangping Zhao, and Lijun Wang

Study of the substructure in nanometer copper thin films treated by laser shock processing
Yinqun Hua, Qing Xue, Haixia Liu, Yunxia Ye, Ruifang Chen, and Zeyan Ni
Wireless terahertz light transmission based on digitally-modulated terahertz quantumcascade laser

Zhiyong Tan, Zhen Chen, Juncheng Cao, and Huichun Liu 031403

1.82-µm distributed feedback lasers with InGaAs/InGaAsP multiple-quantum wells for a H2O sensing system

Hongyan Yu, Jiaoping Pan, Yongbo Shao, Baojun Wang, Daibing Zhou, and Wei Wang 031404

Resonantly pumped Q-switched Er:GdVO4 laser

Baoquan Yao, Xiaolei Liu, Xiao Yu, Xiaoming Duan, Youlun Ju, and Yuezhu Wang 031405

Materials

Investigation of domain walls in periodically poled MgO:LiNbO3 by second harmonic imaging

Yunlin Chen, Jinhong Zhang, and Haiwei Li 031601

Medical Optics and Biotechnology

Strip motion artifact suppression in phase-resolved OCT blood flow images of the human eye based on the frequency rejection filter

Guozhong Liu and Ruikang Wang 031701

Near-infrared fundus camera based on polarization switch in stray light elimination

Haishui Ye, Zhishan Gao, Zhengyu Qin, and Qianwen Wang 031702

Nonlinear Optics

Controlling the propagation of optical rogue waves in nonlinear graded-index waveguide amplifiers

Jiefang Zhang and Wencheng Hu 031901

Optical Design and Fabrication

Design and fabrication of computer-generated holograms for testing optical freeform surfaces

Hua Shen, Rihong Zhu, Zhishan Gao, E. Y. B. PUN, W. H. Wong, and Xiaoli Zhu 032201

Optoelectronics

Echelle diffraction grating based high-resolution spectrometer-on-chip on SiON waveguide platform

Xiao Ma, Jianjun He, and Mingyu Li 032501

Quantum Optics

High contrast transparent ramsey fringes using microwave pulses interaction with atomic coherent state in warm rubidium vapor

Yisheng Ma, Jianliao Deng, Zhengfeng Hu, Huijuan He, and Yuzhu Wang 032701

Thin Films

Microstructuring of anti-reflection film for HgCdTe/Si IRFPA with femtosecond laser pulse

Shan Zhang, Xiaoning Hu, Yang Liao, Fei He, Changning Liu, and Ya Cheng 033101

Other Areas of Optics

Experimental study of K-shell X-ray emission generated from nanowire target irradiated by relativistic laser pulses

Ye Tian, Wentao Wang, Cheng Wang, Xiaoming Lu, Cheng Wang, Yuxin Leng, Xiaoyan Liang, Jiansheng Liu, Ruxin Li, and Zhizhan Xu 033501

Trapping aerosols with optical bottle arrays generated through a superposition of multiple Airy beams

Ze Zhang, Peng Zhang, Matthew Mills, Zhigang Chen, D. N. Christodoulides, and Jingjiao Liu 033502