

PHOTONICS Research

Volume 8
Number 3
March 2020

| | | |
|--|--|-----|
| Subwavelength imaging and detection using adjustable and movable droplet microlenses | <i>Xixi Chen, Tianli Wu, Zhiyong Gong, Yuchao Li, Yao Zhang, and Baojun Li</i> | 225 |
| Hybrid waveguide scheme for silicon-based quantum photonic circuits with quantum light sources | <i>Lingjie Yu, Chenzhi Yuan, Renduo Qi, Yidong Huang, and Wei Zhang</i> | 235 |
| “Periodic” soliton explosions in a dual-wavelength mode-locked Yb-doped fiber laser | <i>Meng Liu, Ti-Jian Li, Ai-Ping Luo, Wen-Cheng Xu, and Zhi-Chao Luo</i> | 246 |
| Exceptional points and the ring laser gyroscope | <i>Luke Horstman, Ning Hsu, James Hendrie, David Smith, and Jean-Claude Diels</i> | 252 |
| Mid-infrared waveguiding in three-dimensional microstructured optical waveguides fabricated by femtosecond-laser writing and phosphoric acid etching | <i>Jinman Lv, Binbin Hong, Yang Tan, Feng Chen, Javier Rodríguez Vázquez de Aldana, and Guo Ping Wang</i> | 257 |
| Ultrafast polarization-dependent all-optical switching of germanium-based metaphotonic devices | <i>Hao Sun, Yuze Hu, Yuhua Tang, Jie You, Junhu Zhou, Hengzhu Liu, and Xin Zheng</i> | 263 |
| Enhancement of femtosecond laser-induced surface ablation via temporal overlapping double-pulse irradiation | <i>Zhenyuan Lin, Lingfei Ji, and Minghui Hong</i> | 271 |
| High-power hybrid GaN-based green laser diodes with ITO cladding layer | <i>Lei Hu, Xiaoyu Ren, Jianping Liu, Aiqin Tian, Lingrong Jiang, Siyi Huang, Wei Zhou, Liqun Zhang, and Hui Yang</i> | 279 |

(Contents continued)

| | | |
|--|--|-----|
| Elucidation of “phase difference” in Raman tensor formalism: erratum | <i>Wei Zheng, Jingshen Yan, Fadi Li, and Feng Huang</i> | 286 |
| Effective suppression of the photodarkening effect in high-power Yb-doped fiber amplifiers by H ₂ loading | <i>Ruiting Cao, Gui Chen, Yisha Chen, Zhilun Zhang, Xianfeng Lin, Bin Dai, Luyun Yang, and Jinyan Li</i> | 288 |
| User-independent optical path length compensation scheme with sub-nanosecond timing resolution for a 1 × N quantum key distribution network system | <i>Byung Kwon Park, Min Ki Woo, Yong-Su Kim, Young-Wook Cho, Sung Moon, and Sang-Wook Han</i> | 296 |
| Microbubble resonators combined with a digital optical frequency comb for high-precision air-coupled ultrasound detectors | <i>Jingshun Pan, Bin Zhang, Zhengyong Liu, Jiaxin Zhao, Yuanhua Feng, Lei Wan, and Zhaohui Li</i> | 303 |
| Second-harmonic generation using d_{33} in periodically poled lithium niobate microdisk resonators [Editors’ Pick] | <i>Zhenzhong Hao, Li Zhang, Wenbo Mao, Ang Gao, Xiaomei Gao, Feng Gao, Fang Bo, Guoquan Zhang, and Jingjun Xu</i> | 311 |
| All-optical tuning of a diamond micro-disk resonator on silicon | <i>Paul Hill, Charalambos Klitis, Benoit Guilhabert, Marc Sorel, Erdan Gu, Martin D. Dawson, and Michael J. Strain</i> | 318 |
| First-photon imaging via a hybrid penalty | <i>Xiao Peng, Xin-Yu Zhao, Li-Jing Li, and Ming-Jie Sun</i> | 325 |
| High-efficiency AlGaIn/GaN/AlGaIn tunnel junction ultraviolet light-emitting diodes | <i>A. Pandey, W. J. Shin, J. Gim, R. Hovden, and Z. Mi</i> | 331 |
| Two-photon interference between continuous-wave coherent photons temporally separated by a day | <i>Danbi Kim, Jiho Park, Taek Jeong, Heonoh Kim, and Han Seb Moon</i> | 338 |
| Quantum versus optical interaction contribution to giant spectral splitting in a strongly coupled plasmon–molecules system [On the Cover] | <i>Bo Wang, Xian-Zhe Zeng, and Zhi-Yuan Li</i> | 343 |

(Contents continued)

| | | |
|---|--|-----|
| Broadband supercontinuum generation in nitrogen-rich silicon nitride waveguides using a 300 mm industrial platform | <i>Christian Lafforgue, Sylvain Guerber, Joan Manel Ramirez, Guillaume Marcaud, Carlos Alonso-Ramos, Xavier Le Roux, Delphine Marris-Morini, Eric Cassan, Charles Baudot, Frédéric Boeuf, Sébastien Cremer, Stéphane Monfray, and Laurent Vivien</i> | 352 |
| Ultra-broadband nanophotonic phase shifter based on subwavelength metamaterial waveguides | <i>David González-Andrade, José Manuel Luque-González, J. Gonzalo Wangüemert-Pérez, Alejandro Ortega-Moñux, Pavel Cheben, Íñigo Molina-Fernández, and Aitor V. Velasco</i> | 359 |
| Ultraviolet-to-microwave room-temperature photodetectors based on three-dimensional graphene foams | <i>Yifan Li, Yating Zhang, Yu Yu, Zhiliang Chen, Qingyan Li, Tengeng Li, Jie Li, Hongliang Zhao, Quan Sheng, Feng Yan, Zhen Ge, Yuxin Ren, Yongsheng Chen, and Jianquan Yao</i> | 368 |
| Optical beam steering by using tunable, narrow-linewidth butt-coupled hybrid lasers in a silicon nitride photonics platform | <i>Yeyu Zhu, Siwei Zeng, and Lin Zhu</i> | 375 |
| In-depth investigation and applications of novel silicon photonics microstructures supporting optical vorticity and waveguiding for ultra-narrowband near-infrared perfect absorption | <i>Roy Avrahamy, Moshe Zohar, Mark Auslender, Benny Milgrom, Shlomo Hava, and Rafi Shikler</i> | 381 |
| Super-resolution compressive spectral imaging via two-tone adaptive coding | <i>Chang Xu, Tingfa Xu, Ge Yan, Xu Ma, Yuhan Zhang, Xi Wang, Feng Zhao, and Gonzalo R. Arce</i> | 395 |
| Raman tensor of AlN bulk single crystal: erratum | <i>Wei Zheng, Ruisheng Zheng, Feng Huang, Honglei Wu, and Fadi Li</i> | 412 |

(Contents continued)

| | | |
|--|---|-----|
| High-efficiency and high-power single-frequency fiber laser at 1.6 μm based on cascaded energy-transfer pumping | <i>Xianchao Guan, Qilai Zhao, Wei Lin, Tianyi Tan, Changsheng Yang, Pengfei Ma, Zhongmin Yang, and Shanhui Xu</i> | 414 |
| Femtosecond mid-IR optical vortex laser based on optical parametric chirped pulse amplification [Editors' Pick] | <i>Junyu Qian, Yujie Peng, Yanyan Li, Pengfei Wang, Beijie Shao, Zhe Liu, Yuxin Leng, and Ruxin Li</i> | 421 |
| Ultra-broadband reflector using double-layer subwavelength gratings | <i>Jinlong Zhang, Shuaikai Shi, Hongfei Jiao, Xiaochuan Ji, Zhanshan Wang, and Xinbin Cheng</i> | 426 |

The color images are shown online.