

IEEE

PHOTONICS TECHNOLOGY LETTERS

MARCH 15, 2016

VOLUME 28

NUMBER 6

IPTLET

(ISSN 1041-1135)

PAPERS

Active Photonic Devices

| | |
|--|-----|
| High-Performance InGaN p-i-n Photodetectors Using LED Structure and Surface Texturing | 605 |
| <i>Y.-T. Huang, P. S. Yeh, Y.-H. Huang, Y.-T. Chen, C.-W. Huang, C. J. Lin, and W. Yeh</i> | |
| Heterogeneous Packaging of Organic Electro-Optic Modulators With RF Substrates | 613 |
| <i>D. L. K. Eng, Z. Aranda, B. C. Olbricht, S. Shi, and D. W. Prather</i> | |
| Thermal Behavior of High Power GaAs-Based Laser Diodes in Vacuum Environment | 665 |
| <i>J. Michaud, L. Béchou, D. Veyrié, F. Laruelle, S. Dilhaire, and S. Grauby</i> | |
| Reduced Repetition Rate Yb ³⁺ Mode-Locked Picosecond Fiber Laser With Hollow Core Fiber | 669 |
| <i>C. M. Harvey, F. Yu, J. C. Knight, W. J. Wadsworth, and P. J. Almeida</i> | |
| High Power Cascaded Erbium Doped Fluoride Fiber Laser at Room Temperature | 673 |
| <i>J. Li, L. Wang, H. Luo, J. Xie, and Y. Liu</i> | |
| Generation of Controllable High Energy Nanosecond Flat-Top Waveform Based on Brillouin Amplification | 705 |
| <i>Y.-L. Wang, Z.-H. Liu, X. Zhu, R. Liu, C. Cui, Y. Chen, R.-Q. Fan, W.-M. He, and Z.-W. Lu</i> | |

Passive Devices and Waveguides

| | |
|---|-----|
| UV-Written Long-Period Grating Based on Long-Range Surface Plasmon-Polariton Waveguide | 633 |
| <i>L. Ji, T. Liu, G. He, X. Sun, X. Wang, Y. Yi, C. Chen, F. Wang, and D. Zhang</i> | |
| Ultra-Compact Broadband Tunable Graphene Plasmonic Multimode Interferometer | 645 |
| <i>R. Zheng, D. Gao, and J. Dong</i> | |
| Tunable Composite Graphene–Silica Pseudonoise Gratings | 677 |
| A Tunable Arbitrary Ratio Power Splitter for Multi-Core Fibers | 681 |
| High-Q and High-Sensitivity One-Dimensional Photonic Crystal Slot Nanobeam Cavity Sensors | 689 |
| <i>T. Li, D. Gao, D. Zhang, and E. Cassan</i> | |

Photonic Materials and Fabrication Technology

| | |
|--|-----|
| Bragg Gratings Incription in Highly Birefringent Microstructured POFs | 621 |
| <i>R. Oliveira, L. Bilro, T. H. R. Marques, M. Napierala, T. Tenderenda, P. Mergo, T. Nasilowski, C. M. B. Cordeiro, and R. Nogueira</i> | |
| Protein-Based Multi-Mode Interference Optical Micro-Splitters | 629 |
| <i>Y.-L. Sun, S.-M. Sun, B.-Y. Zheng, Z.-S. Hou, P. Wang, X.-L. Zhang, W.-F. Dong, L. Zhang, Q.-D. Chen, L.-M. Tong, and H.-B. Sun</i> | |

(Contents Continued on Page 604)

| | | |
|--|---|-----|
| <i>Optical Sensors and Measurement Systems</i> | | |
| Realization of All-in-Fiber Liquid-Core Microstructured Optical Fiber | W. Wang, X. Yin, J. Wu, Y. Geng, X. Tan, Y. Yu, X. Hong, Y. Du, and X. Li | 609 |
| Position Sensing by Transient Photocurrents of Organic Photodiodes | A. P. Arndt, S. W. Kettlitz, J. Mescher, and U. Lemmer | 617 |
| Assembly-Free-Based Fiber-Optic Micro-Michelson Interferometer for High Temperature Sensing | J. Yin, T. Liu, J. Jiang, K. Liu, S. Wang, S. Zou, and F. Wu | 625 |
| Characterization of TiO ₂ -Based MISIM Ultraviolet Photodetectors by Ultrasonic Spray Pyrolysis | H.-Y. Liu, W.-C. Sun, S.-Y. Wei, and S.-M. Yu | 637 |
| SPR Sensor Based on Exposed-Core Grapefruit Fiber With Bimetallic Structure | X. Yang, Y. Lu, M. Wang, and J. Yao | 649 |
| High-Temperature Sensor Based on 45° Tilted Fiber End Fabricated by Femtosecond Laser | Y. Yu, W. Zhou, J. Ma, S. Ruan, Y. Zhang, Q. Huang, and X. Chen | 653 |
| Fast Spectrum Analysis for an OFDR Using the FFT and SCZT Combination Approach | C. Ma, Q. Zhou, J. Qin, W. Xie, Y. Dong, and W. Hu | 657 |
| Microfiber Bragg Grating Sandwiched Between Standard Optical Fibers for Enhanced Temperature Sensing | F. Ahmed and M. B. G. Jun | 685 |
| SLM Fiber Laser Stabilized at High Temperature | L. Rodriguez-Cobo and J.-M. Lopez-Higuera | 693 |
| Theoretical and Experimental Analysis of Φ-OTDR Based on Polarization Diversity Detection | M. Ren, P. Lu, L. Chen, and X. Bao | 697 |
| Perimeter-Gated Single-Photon Avalanche Diodes: An Information Theoretic Assessment | J. Gu, M. H. U. Habib, and N. McFarlane | 701 |
| <i>Photonic Subsystems (optical, digital, RF, and THz)</i> | | |
| Performance Comparison of Analog and Digitized RoF Systems With Nonlinear Channel Condition | H.-D. Jung, K. W. Lee, J.-H. Kim, Y.-H. Kwon, and J. H. Park | 661 |
| <i>Free Space Transmission Systems (optical, RF, and THz)</i> | | |
| A Simple OFDM Scheme for VLC Systems Based on μ -Law Mapping | Y. Yang, Z. Zeng, S. Feng, and C. Guo | 641 |
