

IEEE

PHOTONICS TECHNOLOGY LETTERS

SEPTEMBER 1, 2016

VOLUME 28

NUMBER 17

IPTLET

(ISSN 1041-1135)

PAPERS

<i>Active Photonic Devices</i>		
Solid-State Rhodamine 6G Microcavity Laser	<i>A. Palatnik and Y. R. Tischler</i>	1823
Low Noise, Mode-Locked 253 MHz Tm/Ho Fiber Laser With Core Pumping at 790 nm	<i>A. E. Akosman and M. Y. Sander</i>	1878
Integral Imaging Capture System With Tunable Field of View Based on Liquid Crystal Microlenses	<i>J. F. Algorri, V. Urruchi, N. Bennis, P. Morawiak, J. M. Sánchez-Peña, and J. M. Otón</i>	1854
A Polarization Insensitive Semiconductor Optical Amplifier	<i>Z. Zhu, X. Li, and Y. Xi</i>	1831
Effect of LSP in Phosphor-Converted WLEDs by Application of Ag NPs With/Without Silica Shell	<i>M. Kim, J. B. Shin, and K. C. Choi</i>	1894
<i>Passive Devices and Waveguides</i>		
Compact Eight-Channel Thermally Reconfigurable Optical Add/Drop Multiplexers on Silicon	<i>S. Chen, Y. Shi, S. He, and D. Dai</i>	1874
Air-Suspended SU-8 Strip Waveguides With High Refractive Index Contrast	<i>A. Marinins, N. Knudde, and S. Popov</i>	1862
Reflectance Reduction in a Whiskered SOI Star Coupler	<i>C. Castellan, S. Tondini, M. Mancinelli, C. Kopp, and L. Pavesi</i>	1870
<i>Photonic Materials and Fabrication Technology</i>		
Designing Real-Time Biosensors and Chemical Sensors Based on Defective 1-D Photonic Crystals	<i>F. Bayat, S. Ahmadi-Kandjani, and H. Tajalli</i>	1843
<i>Optical Sensors and Measurement Systems</i>		
A Hybrid Mach-Zehnder Interferometer for Refractive Index and Temperature Measurement	<i>X. Ni, M. Wang, D. Guo, H. Hao, and J. Zhu</i>	1850
An Electroplating Method for Surface Mounting Optical Fiber Sensors on the Metal Substrate	<i>Y. Li, C. Wen, H. Zhang, J. Yang, M. Yan, and J. Jiang</i>	1811
A Prism-Based Optical Readout Method for MEMS Bimaterial Infrared Sensors	<i>U. Adiyan, F. Civitci, O. Ferhanoglu, H. Torun, and H. Urey</i>	1866
Surface-Plasmon-Resonance Refractive-Index Sensor With Cu-Coated Polymer Waveguide	<i>S. K. Mishra, B. Zou, and K. S. Chiang</i>	1835
Flexible Polymer Shape Sensor Based on Planar Waveguide Bragg Gratings	<i>M. Rosenberger, H. Pauer, M. Girschikofsky, H. Woern, B. Schmauss, and R. Hellmann</i>	1898

(Contents Continued on Page 1798)

IEEE PHOTONICS TECHNOLOGY LETTERS (ISSN 1041-1135) is published semimonthly by the Institute of Electrical and Electronics Engineers, Inc. Responsibility for the contents rests upon the authors and not upon the IEEE, the Society/Council, or its members. **IEEE Corporate Office:** 3 Park Avenue, 17th Floor, New York, NY 10016-5997. **IEEE Operations Center:** 445 Hoes Lane, Piscataway, NJ 08854-4141. **NJ Telephone:** +1 732 981 0060. **Price/Publication Information:** Individual copies: IEEE Members \$20.00 (first copy only), nonmembers \$367.00 per copy. (Note: Postage and handling charge not included.) Member and nonmember subscription prices available upon request. Available in microfiche and microfilm. **Copyright and Reprint Permissions:** Abstracting is permitted with credit to the source. Libraries are permitted to photocopy for private use of patrons, provided the per-copy fee of \$31.00 is paid through the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. For all other copying, reprint, or republication permission, write to Copyrights and Permissions Department, IEEE Publications Administration, 445 Hoes Lane, Piscataway, NJ 08854-4141. Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc. All rights reserved. **Postmaster:** Send address changes to IEEE PHOTONICS TECHNOLOGY LETTERS, IEEE, 445 Hoes Lane, Piscataway, NJ 08854-4141. GST Registration No. 125634188. CPC Sales Agreement #40013087. Return undeliverable Canada addresses to: Pitney Bowes IMEX, P.O. Box 4332, Stanton Rd., Toronto, ON M5W 3J4, Canada. IEEE prohibits discrimination, harassment and bullying. For more information visit <http://www.ieee.org/nondiscrimination>. Printed in U.S.A.

Universal Performance Prediction for Gated and Free-Running Geiger-Mode Avalanche Photodiodes	P. Zhao, Y. Zhang, K. Wang, and W. Qian	1890
Wavefront Sensing and Image Restoration With Spatially Overlapping Diversity Technology	Z. Xie, H. Ma, B. Qi, G. Ren, Y. Tan, L. Dong, Z. Wang, and X. He	1882
Simultaneous Measurement of RI and Temperature Based on a Composite Interferometer	X.-G. Li, Y. Zhao, L. Cai, and Q. Wang	1839
<i>Photonic Subsystems (optical, digital, RF, and THz)</i>		
Optical Pulse Generation by an Optoelectronic Oscillator With Optically Injected Semiconductor Laser	P. Zhou, F. Zhang, B. Gao, and S. Pan	1827
<i>Free Space Transmission Systems (optical, RF, and THz)</i>		
Low-Complexity Receivers and Energy-Efficient Constellations for SPAD VLC Systems	J. Zhang, L.-H. Si-Ma, B.-Q. Wang, J.-K. Zhang, and Y.-Y. Zhang	1799
<i>Optical Fiber Networks and Transmission Systems</i>		
Adaptive and Sparse Dispersion Compensation for Heterogeneous-Span Optical Networks	R.-J. Essiambre, P. Claisse, and E. C. Burrows	1847
Channel Estimation on Individual Subcarrier Using Image Processing in Optical OFDM System	Z. Yu, Y. Lou, M. Chen, H. Chen, S. Yang, and S. Xie	1815
Dispersion Impact on the Crosstalk Amplitude Response of Homogeneous Multi-Core Fibers	A. V. T. Cartaxo, R. S. Luís, B. J. Puttnam, T. Hayashi, Y. Awaji, and N. Wada	1858
Modulation Format Identification in Coherent Receivers Using Deep Machine Learning	F. N. Khan, K. Zhong, W. H. Al-Arashi, C. Yu, C. Lu, and A. P. T. Lau	1886
W-Band Vector Signal Generation by Photonic Frequency Quadrupling and Balanced Pre-Coding	L. Chen, R. Deng, J. He, Q. Chen, Y. Liu, and C. Xiang	1807
The Benefit of Split Nonlinearity Compensation for Single-Channel Optical Fiber Communications	D. Lavery, D. Ives, G. Liga, A. Alvarado, S. J. Savory, and P. Bayvel	1803
Highly Correlated Chaotic Emission From Bidirectionally Coupled Semiconductor Lasers	A. Argyris, E. Pikasis, and D. Syvridis	1819
