

## PAPERS

*Active Photonic Devices*

- Reduced Complexity, Low-Power Linear Modulator for DAC-Based Multilevel Coherent Transmitters .... *B. Dingel* 717
- Design and Fabrication of Hybrid Metal Semiconductor Mirror for High-Power VECSEL ..... *K. Gbele, A. Laurain, J. Hader, W. Stolz, and J. V. Moloney* 732
- Hybrid Plasmonic Modulators and Filters Based on Electromagnetically Induced Transparency ..... *D. C. Zografopoulos, M. Swillam, and R. Beccherelli* 818
- DAC-Free 320 Gb/s 2-Carrier Nyquist-Space DP PAM-4 Transmission by Resonant InP MZM ..... *A. Aimone, P. Wilke Berenguer, C. Meuer, M. Gruner, J. K. Fischer, C. Schubert, and M. Schell* 775
- Extended-Temperature Operation ( $-40\text{ }^{\circ}\text{C}$  to  $+95\text{ }^{\circ}\text{C}$ ) of an EML TOSA Employing an Athermal Optical System ..... *N. Ohata, K. Uto, F. Shoda, K. Kuramoto, M. Shirao, N. Okada, T. Yanagisawa, and H. Aruga* 725

*Passive Devices and Waveguides*

- Degenerate Four-Wave Mixing-Based Light Source for CARS Microspectroscopy ..... *J. Yuan, G. Zhou, C. Xia, X. Sang, F. Li, C. Yu, K. Wang, B. Yan, H. Y. Tam, and P. K. A. Wai* 763
- LiNbO<sub>3</sub> Thin-Film Modulators Using Silicon Nitride Surface Ridge Waveguides ..... *S. Jin, L. Xu, H. Zhang, and Y. Li* 736
- Cascaded Ring-Resonators for Multi-Channel Optical Sensing With Reduced Temperature Sensitivity ..... *M. Mao, S. Chen, and D. Dai* 814
- Modeling the Broadband Mid-Infrared Dispersion Compensator Based on ZBLAN Microfiber ..... *Q. Yang, L. Miao, G. Jiang, and C. Zhao* 728
- Robust Design of Plasmonic Waveguide Using Gradient Index and Multiobjective Optimization ..... *J. Jung* 756

*Photonic Materials and Fabrication Technology*

- Compact Hybrid-Integrated 100-Gb/s TOSA Using EADFB Laser Array and AWG Multiplexer ..... *T. Ohyama, Y. Doi, W. Kobayashi, S. Kanazawa, T. Tanaka, K. Takahata, A. Kanda, T. Kurosaki, T. Ohno, H. Sanjoh, and T. Hashimoto* 802
- Polarized Emission From InGaN/GaN Single Nanorod Light-Emitting Diode ..... *T. Zhi, T. Tao, B. Liu, Z. Zhuang, J. Dai, Y. Li, G. Zhang, Z. Xie, P. Chen, and R. Zhang* 721

(Contents Continued on Page 712)

---

<i>Optical Sensors and Measurement Systems</i>	
40-km OFDR-Based Distributed Disturbance Optical Fiber Sensor .....	771
..... T. Liu, Y. Du, Z. Ding, K. Liu, Y. Zhou, and J. Jiang	
Ultrafast FBG Interrogator Based on Time-Stretch Method .....	778
..... M. Lei, W. Zou, X. Li, and J. Chen	
Laser Linewidth Measurement Based on Amplitude Difference Comparison of Coherent Envelope .....	759
..... S. Huang, T. Zhu, Z. Cao, M. Liu, M. Deng, J. Liu, and X. Li	
Optical Pulse Compression Reflectometry Based on Double Sideband Modulation .....	798
..... L. Yu, W. Zou, and J. Chen	
Temperature Sensor Based on Fiber Ring Laser With Sagnac Loop .....	794
..... J. Shi, Y. Wang, D. Xu, H. Zhang, G. Su, L. Duan, C. Yan, D. Yan, S. Fu, and J. Yao	
Overlap-Proof Fiber Bragg Grating Sensing System Using Spectral Encoding .....	744
..... A. Triana, D. Pastor, and M. Varón	
Optical Temperature Sensor Based on Green Fluorescence of $\text{Er}_2\text{O}_3 \cdot 3\text{Nb}_2\text{O}_5$ Phosphor .....	806
..... N. Yuan, H.-X. Sun, W.-H. Wong, D.-Y. Yu, E. Y.-B. Pun, and D.-L. Zhang	
<i>Photonic Subsystems (optical, digital, RF, and THz)</i>	
Chirped Waveform Generation With Envelope Reconfigurability for Pulse Compression Radar .....	748
..... M. Rius, M. Bolea, J. Mora, and J. Capmany	
Multiple QPM Resonant Radiations Induced by MI in Dispersion Oscillating Fibers .....	740
..... M. Conforti, S. Trillo, A. Kudlinski, and A. Mussot	
Full-Duplex Gigabit Indoor Optical Wireless Communication System With CAP Modulation .....	790
..... K. Wang, A. Nirmalathas, C. Lim, K. Alameh, and E. Skafidas	
Equalization of Dispersion-Induced Crosstalk in Optical Offset-QAM OFDM Systems .....	782
..... Y. Yu, P. D. Townsend, and J. Zhao	
All-Optical Tag Comparison for Hit/Miss Decision in Optical Cache Memories .....	713
..... C. Vagionas, S. Pitris, C. Mitsolidou, J. Bos, P. Maniotis, D. Tsiokos, and N. Pleros	
<i>Free Space Transmission Systems (optical, RF, and THz)</i>	
High-Power High-Beam-Quality 330-nm Laser From a Frequency-Quadrupled Nd:YAG Laser .....	767
..... M. Chen, Z.-C. Wang, S.-J. Zhang, F. Yang, M. He, F.-F. Zhang, N. Zong, Z.-M. Wang, Y. Bo, Q.-J. Peng, J.-Y. Zhang, D.-F. Cui, and Z.-Y. Xu	
<i>Optical Fiber Networks and Transmission Systems</i>	
A Robust Adaptive Pre-Distortion Method for Optical Communication Transmitters .....	752
..... G. Khanna, B. Spinnler, S. Calabrò, E. De Man, and N. Hanik	
An Efficient Core Selection Method for Heterogeneous Trench-Assisted Multi-Core Fiber .....	810
..... J. Tu, K. Long, and K. Saitoh	
Sensitivity Gains by Mismatched Probabilistic Shaping for Optical Communication Systems .....	786
..... T. Fehenberger, D. Lavery, R. Maher, A. Alvarado, P. Bayvel, and N. Hanik	

---