

五、論文著述：

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2. T. C. Tzu, Y. Hsu, C. Y. Chuang, X. Wu, C. W. Chow, J. Chen, C. H. Yeh, and H. K. Tsang, " Equalization of PAM-4 Signal Generated by Silicon Microring Modulator for 64-Gbit/s Transmission," *J. Lightwave Technol.*, Vol. 35, No. 22, pp. 4943-4948, 2017
3. Jia-Liang Yen, Xin-Nan Chen, Kai-Lun Ch, Jason (Jyehong) Chen, and Jin-Wei Shi, "850 nm Vertical-Cavity Surface-Emitting Laser Arrays with Enhanced High-Speed Transmission Performance over a Standard Multi-Mode Fiber," *J. Lightwave Technol.*, Vol. 35, No. 15, pp. 3242-3249, 2017
4. HSING-YU CHEN, NORIAKI KANEDA, JEFFREY LEE, JYEHONG CHEN, AND YOUNG-KAI "Optical filter requirements in an EML-based single-sideband PAM4 intensity-modulation and direct-detection transmission system," *OPTICS EXPRESS*, Vol. 25 (6), pp.5852-5860 (2017)
5. HSING-YU CHEN, CHIA-CHIEN WEI, CHE-YU LIN, LI-WEI CHEN, I-CHENG LU, AND JYEHONG CHEN, "Frequency- and time-domain nonlinear distortion compensation in high-speed OFDM- IMDD LR-PON with high loss budget," *OPTICS EXPRESS*, Vol. 25 (6), pp.5044-5056 (2017)
6. Kai-Lun Chi, Yi-Xuan Shi, Xin-Nan Chen, Jason (Jyehong) Chen, Ying-Jay Yang, J.-R Kropp, N. Ledentsov Jr, M. Agustin, N.N. Ledentsov, G. Stepniak, J. P. Turkiewicz and Jin-Wei Shi, "Single-Mode 850 nm VCSELs for 54 Gbit/sec On-Off Keying Transmission Over 1 km Multi-Mode Fiber," *IEEE Photon. Technol. Lett.*, IEEE Vol. 28, No. 12, pp. 1367-1370, 2016
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1. Wan-Jou Huang; Wei-Fan Chang; Chia-Chien Wei; Jun-Jie Liu; Yi-Ching Chen; Kai-Lun Chi; Chih-Lin Wang; Jin-Wei Shi; Jyehong Chen, "93% Complexity Reduction of Volterra Nonlinear Equalizer by l1-Regularization for 112-Gbps PAM-4 850-nm VCSEL Optical Interconnect," *OFC 2018 San Diego, USA*, M2D.7
2. C. Y. Chuang; Li-Chun Liu; Chia-Chien Wei; Jun-Jie Liu; Lindor Henrickson; Wan-Jou Huang; Chih-Lin Wang; Young-Kai Chen; Jyehong Chen; "Convolutional Neural Network based Nonlinear Classifier for 112-Gbps High Speed Optical Link," *OFC 2018 San Diego, USA*, W2A.43
3. Chun-Yen Chuang, Chia-Chien Wei, Tien-Chien Lin, Kai-Lun Chi, Li-Chun Liu, Jin-Wei Shi, Young-Kai Chen and Jyehong Chen, "Employing Deep Neural Network for High Speed 4-PAM Optical Interconnect," *ECOC 2017, Gothenburg, Sweden*.
4. Shao-Yu Lu, Chia-Chien Wei, Chun-Yen Chuang, Young-Kai Chen and Jyehong Chen, "81.7% Complexity Reduction of Volterra Nonlinear Equalizer by Adopting L1 Regularization Penalty in an OFDM Long-Reach PON," *ECOC 2017, Gothenburg, Sweden*.
5. Hong-Minh Nguyen, Chun-Yen Chuang, Bobby Shie, Chia-Chien Wei, Jun-Jie Liu, Alan Hong, Young-Kai Chen, Jyehong Chen, "56-Gbps 4-PAM System Over Nearly 40 Km Transmission By Employing An O-band EML And SOA," *CLEO-PR, OECC and PGC 2017, Singapore*
6. Chun-Yen Chuang, Chia-Wei Hsu, Chia-Chien Wei, Jun-Jie Liu, Hong-Minh Nguyen, Young-Kai Chen, Jyehong Chen, "67.6% Improvement In Data Rate Employing Partial Transmit Sequence For PAPR Reduction And Volterra Filtering In An OFDM Long-Reach PON," *CLEO-PR, OECC and PGC 2017, Singapore*
7. C. Y. Chuang; Chia-Chien Wei; Jun-Jie Liu; Hsin-Yu Wu; Hong-Minh Nguyen; Chun-Wei Wang; Shao-Yu Lu; Young-Kai Chen; Jyehong Chen; "A High Loss Budget 400-Gbps WDM-OFDM Long-Reach PON over 60 km Transmission by 10G-class EAM and PIN without In-line or Pre-Amplifier," *OFC 2017 Los Angeles, USA*, W1k.3

8. Jun-Jie Liu; Kai-Lun Chi; Chia-Chien Wei; Tien-Chien Lin; C. Y. Chuang; Xin-Nan Chen; Jin-Wei Shi; Jyehong Chen; "High Bit-Rate Distance Product of 128 Gbps km 4-PAM Transmission over 2-km OM4 fiber Using an 850-nm VCSEL and a Volterra Nonlinear Equalizer," OFC 2017 Los Angeles, USA, W3G.5
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10. Wan-Jou Huang, Chia-Chien Wei, and Jyehong Chen, "Optical DAC for Generation of PAM4 Using Parallel Electro-Absorption Modulators," p1118, ECOC 2016, Dusseldorf, Germany
11. Yung Hsu, Jun-Jie Liu, Xinru Wu, Hsin-Yu Wu, Chien-Hung Yeh, Hon-Ki Tsang, Jyehong Chen, and Chi-Wai Chow, "Direct Detection OFDM PON using Ge-on-Si Photodetector Employing Volterra Filtering for Nonlinear Compensation," p1250, ECOC 2016, Dusseldorf, Germany
12. Jun-Jie Liu, Chia-Chien Wei, Ta-Ching Tzu, Chun-Yen Chuang, Kai-Lun Chi, Xin-Nan Chen, Jin-Wei Shi, and Jyehong Chen, "Bandwidth Enhancement Equalization Enabling a 40-Gbps PAM4 Transmission via a 9.5-GHz Photoreceiver," accepted OECC 2016, Niigata, Japan
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14. Hsing Yu Chen; Chia Chien Wei; Jun-Jie Liu; Chia Wei Hsu; Hsin Yu Wu; Chun Yen Chang; Jyehong Chen; 52.5% Data Rate Improvement by Employing Volterra Filtering and Exponential Companding in a High Loss Budget and High-Capacity OFDM Long-Reach PON," OFC 2016 Anaheim, Th3C.3
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