

Denting M Kong

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Practical Kramers-Kronig Phase Retrieval FIR Filter With the Gibbs Phenomenon. Journal of Lightwave Technology, 2022, 40, 1007-1017.	4.6	2
2	Integrated dual-laser photonic chip for high-purity carrier generation enabling ultrafast terahertz wireless communications. Nature Communications, 2022, 13, 1388.	12.8	48
3	Super-broadband on-chip continuous spectral translation unlocking coherent optical communications beyond conventional telecom bands. Nature Communications, 2022, 13, .	12.8	18
4	909.5 Tbit/s Dense SDM and WDM Transmission Based on a Single Source Optical Frequency Comb and Kramers-Kronig Detection. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	9
5	Compact, Energy-Efficient, and Low-Loss Thermo-Optic Silicon Optical Phase Shifter. , 2021, , .		1
6	Digital-Analog Hybrid Optical Access Integrating 56-Gbps PAM-4 Signal and 5G mmWave Signal by Spectral Null Filling. Journal of Lightwave Technology, 2021, 39, 1278-1288.	4.6	9
7	100 Gbit/s PAM-16 Transmission in the 2- μ m Band over a 1.15-km Hollow-Core Fiber. , 2021, , .		1
8	Single-photodiode 100 Gbaud PAM-6 Transmission with Extended Transmitter Bandwidth using Optical Time and Polarization Interleaving. , 2021, , .		0
9	Piecewise Linear Equalizer for DML Based PAM-4 Signal Transmission Over a Dispersion Uncompensated Link. Journal of Lightwave Technology, 2020, 38, 654-660.	4.6	13
10	Frequency-domain ultrafast passive logic: NOT and XNOR gates. Nature Communications, 2020, 11, 5839.	12.8	15
11	Intra-Datacenter Interconnects With a Serialized Silicon Optical Frequency Comb Modulator. Journal of Lightwave Technology, 2020, 38, 4677-4682.	4.6	16
12	120 GBaud PAM-4/PAM-6 Generation and Detection by Photonic Aided Digital-to-Analog Converter and Linear Equalization. Journal of Lightwave Technology, 2020, 38, 2226-2230.	4.6	7
13	Computationally efficient 104 Gb/s PWL-Volterra equalized 2D-TCM-PAM8 in dispersion unmanaged DML-DD system. Optics Express, 2020, 28, 7070.	3.4	14
14	224-Gbps single-photodiode PAM-4 transmission with extended transmitter bandwidth based on optical time-and-polarization interleaving. Optics Express, 2020, 28, 21155.	3.4	7
15	744-nm wavelength conversion of PAM-4 signal using an AlGaAsOI nanowaveguide. Optics Letters, 2020, 45, 889.	3.3	7
16	Energy-efficient thermo-optic silicon phase shifter with well-balanced overall performance. Optics Letters, 2020, 45, 4806.	3.3	32
17	Computationally Efficient 120 Gb/s PWL Equalized 2D-TCM-PAM8 in Dispersion Unmanaged DML-DD System. , 2020, , .		2
18	Broadband Optical Signal Processing in AlGaAs-on-insulator Waveguides. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	300 Gb/s Net-Rate Intra-Datacenter Interconnects with a Silicon Integrated Optical Frequency Comb Modulator. , 2020, , .		0
20	Ultra-low power all-optical wavelength conversion of high-speed data signals in high-confinement AlGaAs-on-insulator microresonators. APL Photonics, 2019, 4, .	5.7	26
21	Nonlinear Tomlinson-Harashima precoding for direct-detected double sideband PAM-4 transmission without dispersion compensation. Optics Express, 2019, 27, 19156.	3.4	29
22	Integrated Dual-DFB Laser for 408 GHz Carrier Generation Enabling 131 Gbit/s Wireless Transmission over 10.7 Meters. , 2019, , .		22
23	All-optical OFDM demultiplexing with optical partial Fourier transform and coherent sampling. Optics Letters, 2019, 44, 443.	3.3	5
24	Optical sampling to enhance Nyquist-shaped signal detection under limited receiver bandwidth. Optics Express, 2019, 27, 24007.	3.4	0
25	A Novel in-Band OSNR Measurement Method Based on Normalized Autocorrelation Function. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	9
26	Selectable-FSR 10-GHz Granularity WDM Superchannel Filter in a Reconfigurable Photonic Integrated Circuit. Journal of Lightwave Technology, 2018, 36, 2619-2626.	4.6	13
27	Filtered Carrier Phase Estimator for High-Order QAM Optical Systems. Journal of Lightwave Technology, 2018, 36, 2980-2993.	4.6	9
28	Kramersâ€™Kronig Detection with Adaptive Rates for 909.5 Tbit/s Dense SDM and WDM Data Channels. , 2018, , .		7
29	Highly Power-Efficient Nyquist-mPPM-LQAM Modulation With Enhanced Spectrum Efficiency. IEEE Photonics Technology Letters, 2017, 29, 94-97.	2.5	5
30	Low Complexity Blind Phase Recovery Algorithm with Increased Robustness Against Cycle-Slips. , 2017, , .		3
31	All-optical digital-to-analog converter based on cross-phase modulation with temporal integration. Optics Letters, 2017, 42, 4549.	3.3	8
32	Cycle-slip-less low-complexity phase recovery algorithm for coherent optical receivers. Optics Letters, 2017, 42, 3554.	3.3	6
33	Implementation of Nyquist OTDM Signal Demultiplexing Using a Single IQ Modulator. , 2017, , .		0
34	An In-band OSNR Monitoring Technique based on Normalized Autocorrelation Function. , 2016, , .		1
35	Nyquist-mPPM-QPSK Modulation for Power and Spectrum Efficient Optical Communications. , 2016, , .		6
36	Free-space to few-mode-fiber coupling under atmospheric turbulence. Optics Express, 2016, 24, 18739.	3.4	46

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37	Free Space to Single Mode Fiber Coupling Efficiency Improvement using Wave-front Sensor-less Adaptive Optics. , 2016, , .		2
38	Guideline of choosing optical delay time to optimize the performance of an interferometry-based in-band OSNR monitor. Optics Letters, 2016, 41, 4178.	3.3	6
39	Integrated In-Band OSNR Monitor Based on Asymmetrical Parallel-MZIs for WDM signals. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 467-472.	2.9	8
40	Enhanced performance of in-band OSNR monitor based on delay time optimization of interferometer. , 2016, , .		0
41	Demultiplexing performance investigation of N-OTDM signal by temporal magnification and coherent optical sampling. , 2016, , .		0
42	640 Gbit/s return-to-zero to non-return-to-zero format conversion based on optical linear spectral phase filtering. Optics Letters, 2016, 41, 64.	3.3	9
43	Improved Amplitude and Phase Noise Mitigation for 16QAM Transmission Using Viterbi-Viterbi Phase Estimator Combined with Extended Kalman Filter. , 2016, , .		2
44	Demultiplexing of N-OTDM Signal by Temporal Magnification and Coherent Sampling. , 2016, , .		0
45	Passive Linear-Optics 640 Gbit/s Logic NOT Gate. , 2015, , .		2
46	A Novel Detection Scheme for Nyquist Optical Time-division Multiplexed Signal with Coherent Matched Sampling. , 2015, , .		5
47	Multi-wavelength in-band OSNR monitor based on Lyot-Sagnac interferometer. Optics Express, 2015, 23, 20257.	3.4	10
48	Investigation on Pulse-width and Roll-off Factor of Sampling Pulses in Coherent Matched Sampling of a Nyquist Optical Time-division Multiplexed Signal. , 2015, , .		2
49	Multi-Wavelength In-band OSNR Monitoring based on Lyot-Sagnac Interferometer. , 2015, , .		0
50	640 Gbit/s RZ-to-NRZ format conversion based on optical phase filtering. , 2014, , .		0
51	All-Optical Logic Gate for XOR Operation Between 40-Gbaud QPSK Tributaries in an Ultra-Short Silicon Nanowire. IEEE Photonics Journal, 2014, 6, 1-7.	2.0	35
52	Ultrafast all-optical clock recovery based on phase-only linear optical filtering. Optics Letters, 2014, 39, 2815.	3.3	13
53	Low overhead slipless carrier phase estimation scheme. Optics Express, 2014, 22, 20740.	3.4	7
54	320 Gb/s Nyquist OTDM received by polarization-insensitive time-domain OFT. Optics Express, 2014, 22, 110.	3.4	78

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55	All-optical OFDM demultiplexing by spectral magnification and band-pass filtering. Optics Express, 2014, 22, 136.	3.4	16
56	Investigation on Nyquist pulse generation using a single dual-parallel Mach-Zehnder modulator. Optics Express, 2014, 22, 20463.	3.4	31
57	Generation of 40GHz ultra-low timing-jitter pulses by dual-loop optoelectronic oscillator with balanced-detection. , 2014, , .		0
58	Performance Analysis of Two Slipless Carrier Phase Estimation Scheme. , 2014, , .		0
59	Performance evaluation of (D)APSK modulated coherent optical OFDM system. Optical Fiber Technology, 2013, 19, 242-249.	2.7	8
60	Simple asymmetric optical DQPSK modulation and demodulation scheme. Optics Communications, 2013, 288, 17-22.	2.1	4
61	All-optical XOR gates for QPSK signal based optical networks. Electronics Letters, 2013, 49, 486-488.	1.0	23
62	640Gbit/s Dual-polarization DQPSK OTDM Transmission over 410km Using EAM-based Pulse Source and Clock Recovery. , 2013, , .		0
63	Dual-loop Optoelectronic Oscillator for Generation of Stable and Ultralow Timing-jitter Electrical and Optical Clock. , 2013, , .		2
64	Increased tolerance toward fiber nonlinearity with star L quadrature amplitude modulation modulated coherent optical orthogonal frequency division multiplexing system. Optical Engineering, 2012, 51, 115003.	1.0	0
65	Ultra-low timing-jitter 40GHz clock recovery using EAM-MZM double-loop and its application in a 640Gbit/s OTDM system. Optics Express, 2012, 20, B615.	3.4	8
66	Generation and performance Investigation of 40GHz phase stable and pulse width-tunable optical time window based on a DPMZM. Optics Express, 2012, 20, 24754.	3.4	20
67	APSK Modulated CO-OFDM System With Increased Tolerance Toward Fiber Nonlinearity. IEEE Photonics Technology Letters, 2012, 24, 1085-1087.	2.5	18
68	Multicarrier Group Detection in Receiver-Side Duobinary-Shaped WDM Superchannel Systems. IEEE Photonics Technology Letters, 2012, 24, 1206-1208.	2.5	5
69	Novel high-sensitivity coherent transceiver for optical DPSK/DQPSK signals based on heterodyne detection and electrical delay interferometer. Chinese Optics Letters, 2012, 10, 030603-30606.	2.9	3
70	Half baudrate electrical clock based demultiplexing scheme for OTDM-DQPSK signal using SOA and optical filter. Chinese Optics Letters, 2012, 10, 040601-40604.	2.9	0
71	80-GB all-optical serial-to-parallel convertor for QPSK signal based on cascaded phase modulators and optical filters. Chinese Optics Letters, 2012, 10, 113201-113203.	2.9	0
72	Ultra-low Timing-Jitter 40GHz Clock Recovery Using EAM-MZM Double-Loop and Its Application in a 640Gbit/s OTDM System. , 2012, , .		0

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73	10.1109/LPT.2012.2191771., 0, , .		18