

Peicheng Liao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Demonstration of Tunable Optical Aggregation of QPSK to 16-QAM Over Optically Generated Nyquist Pulse Trains Using Nonlinear Wave Mixing and a Kerr Frequency Comb. <i>Journal of Lightwave Technology</i> , 2020, 38, 359-365.	4.6	23
2	Demonstration of wavelength tunable optical modulation format conversion from 20 and 30 Gbit/s QPSK to PAM4 using nonlinear wave mixing. <i>Optics Communications</i> , 2020, 459, 124871.	2.1	6
3	High-Speed Coherent Optical Communication With Isolator-Free Heterogeneous Si/III-V Lasers. <i>Journal of Lightwave Technology</i> , 2020, 38, 6584-6590.	4.6	11
4	Continuous delay tunability using a combination of three types of fiber Bragg gratings, wavelength conversion, and wavelength multicasting with a frequency comb. <i>Optics Communications</i> , 2020, 464, 125431.	2.1	1
5	Flexible spectrum sharing of two asynchronous phase-shift keying signals using power division multiplexing. <i>Optics Letters</i> , 2020, 45, 1176.	3.3	3
6	Experimental Demonstration of an Optical Second-Order Volterra Nonlinear Filter using Wave Mixing and Delays to Equalize a 20-Gbaud 4-APSK Channel. , 2020, , .		3
7	Kramersâ€™Kronig detection of four 20â€™Gbaud 16-QAM channels using Kerr combs for a shared phase estimation. <i>Optics Letters</i> , 2020, 45, 1794.	3.3	1
8	Higher-order QAM data transmission using a high-coherence hybrid Si/IIIâ€™V semiconductor laser. <i>Optics Letters</i> , 2020, 45, 1499.	3.3	6
9	16-QAM probabilistic constellation shaping by adaptively modifying the distribution of transmitted symbols based on errors at the receiver. <i>Optics Letters</i> , 2020, 45, 5283.	3.3	7
10	Demonstration of Multiple Kerr-Frequency-Comb Generation Using Different Lines From Another Kerr Comb Located Up To 50 km Away. <i>Journal of Lightwave Technology</i> , 2019, 37, 579-584.	4.6	15
11	Experimental demonstration of tunable de-aggregation from 16-QAM to 4-PAM for two wavelength multiplexed channels using wave mixing in a single nonlinear element to map constellation onto axes. <i>Optics Communications</i> , 2019, 451, 74-79.	2.1	9
12	Limited-size aperture effects in an orbital-angular-momentum-multiplexed free-space optical data link between a ground station and a retro-reflecting UAV. <i>Optics Communications</i> , 2019, 450, 241-245.	2.1	6
13	Digital Modulation of Coherently-Coupled 2×1 Vertical-Cavity Surface-Emitting Laser Arrays. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 173-176.	2.5	30
14	Optical Mitigation of Interchannel Crosstalk for Multiple Spectrally Overlapped 20-GBd QPSK/16-QAM WDM Channels Using Nonlinear Wave Mixing. <i>Journal of Lightwave Technology</i> , 2019, 37, 548-554.	4.6	6
15	All-Optical Signal Processing Techniques for Flexible Networks. <i>Journal of Lightwave Technology</i> , 2019, 37, 21-35.	4.6	71
16	Using a Hybrid Si/III-V Semiconductor Laser to Carry 16- and 64-QAM Data Signals over an 80-km Distance. , 2019, , .		3
17	Coherent optical wireless communication link employing orbital angular momentum multiplexing in a ballistic and diffusive scattering medium. <i>Optics Letters</i> , 2019, 44, 691.	3.3	15
18	Orthogonally polarized frequency comb generation from a Kerr comb via cross-phase modulation. <i>Optics Letters</i> , 2019, 44, 1472.	3.3	32

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19	Mitigation for turbulence effects in a 40-Gbit/s orbital-angular-momentum-multiplexed free-space optical link between a ground station and a retro-reflecting UAV using MIMO equalization. Optics Letters, 2019, 44, 5181.	3.3	37
20	Ultra-flat dispersion in an integrated waveguide with five and six zero-dispersion wavelengths for mid-infrared photonics. Photonics Research, 2019, 7, 1279.	7.0	33
21	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. Research, 2019, 2019, 8326701.	5.7	21
22	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. Research, 2019, 2019, 1-10.	5.7	1
23	Reconfigurable optical generation of nine Nyquist WDM channels with sinc-shaped temporal pulse trains using a single microresonator-based Kerr frequency comb. Optics Letters, 2019, 44, 1852.	3.3	11
24	Phase-sensitive QPSK channel phase quantization by amplifying the fourth-harmonic idler using counter-propagating Brillouin amplification. Optics Communications, 2018, 423, 48-52.	2.1	13
25	Reconfigurable Channel Slicing and Stitching for an Optical Signal to Enable Fragmented Bandwidth Allocation Using Nonlinear Wave Mixing and an Optical Frequency Comb. Journal of Lightwave Technology, 2018, 36, 440-446.	4.6	24
26	Scalable and Reconfigurable Optical Tap-Delay-Line for Multichannel Equalization and Correlation of 20-Cbaud QPSK Signals using Nonlinear Wave Mixing and a Microresonator Kerr Frequency Comb. , 2018, , .		0
27	MIMO Equalization to Mitigate Turbulence in a 2-Channel 40-Gbit/s QPSK Free-Space Optical 100-m Round-Trip Orbital-Angular-Momentum-Multiplexed Link Between a Ground Station and a Retro-Reflecting UAV. , 2018, , .		4
28	Effects of erbium-doped fiber amplifier induced pump noise on soliton Kerr frequency combs for 64-quadrature amplitude modulation transmission. Optics Letters, 2018, 43, 2495.	3.3	8
29	Scalable and reconfigurable optical tapped-delay-line for multichannel equalization and correlation using nonlinear wave mixing and a Kerr frequency comb. Optics Letters, 2018, 43, 5563.	3.3	13
30	Line-of-Sight Millimeter-Wave Communications Using Orbital Angular Momentum Multiplexing Combined With Conventional Spatial Multiplexing. IEEE Transactions on Wireless Communications, 2017, 16, 3151-3161.	9.2	130
31	High-Capacity Free-Space Optical Communications Between a Ground Transmitter and a Ground Receiver via a UAV Using Multiplexing of Multiple Orbital-Angular-Momentum Beams. Scientific Reports, 2017, 7, 17427.	3.3	81
32	Spatially multiplexed orbital-angular-momentum-encoded single photon and classical channels in a free-space optical communication link. Optics Letters, 2017, 42, 4881.	3.3	22
33	Tunable insertion of multiple lines into a Kerr frequency comb using electro-optical modulators. Optics Letters, 2017, 42, 3765.	3.3	10
34	Dual-pump generation of high-coherence primary Kerr combs with multiple sub-lines. Optics Letters, 2017, 42, 595.	3.3	17
35	Pump-linewidth-tolerant wavelength multicasting using soliton Kerr frequency combs. Optics Letters, 2017, 42, 3177.	3.3	14
36	Pilot-tone-based self-homodyne detection using optical nonlinear wave mixing. Optics Letters, 2017, 42, 1840.	3.3	21

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37	Dependence of a microresonator Kerr frequency comb on the pump linewidth. Optics Letters, 2017, 42, 779.	3.3	21
38	Spatial light structuring using a combination of multiple orthogonal orbital angular momentum beams with complex coefficients. Optics Letters, 2017, 42, 991.	3.3	31
39	Mode-Division-Multiplexing of Multiple Bessel-Gaussian Beams Carrying Orbital-Angular-Momentum for Obstruction-Tolerant Free-Space Optical and Millimetre-Wave Communication Links. Scientific Reports, 2016, 6, 22082.	3.3	63
40	Multipath Effects in Millimetre-Wave Wireless Communication using Orbital Angular Momentum Multiplexing. Scientific Reports, 2016, 6, 33482.	3.3	37
41	Effect of a breather soliton in Kerr frequency combs on optical communication systems. Optics Letters, 2016, 41, 1764.	3.3	6
42	Demonstration of optical multicasting using Kerr frequency comb lines. Optics Letters, 2016, 41, 3876.	3.3	13
43	Reconfigurable optical inter-channel interference mitigation for spectrally overlapped QPSK signals using nonlinear wave mixing in cascaded PPLN waveguides. Optics Letters, 2016, 41, 3233.	3.3	8
44	Experimental demonstration of tunable homodyne detection of WDM and dual-polarization PSK channels by automatically locking the channels to a local pump laser using nonlinear mixing. Optics Letters, 2016, 41, 2680.	3.3	2
45	Experimental characterization of a 400 Gbit/s orbital angular momentum multiplexed free-space optical link over 120 m. Optics Letters, 2016, 41, 622.	3.3	136
46	Experimental demonstration of phase-sensitive regeneration of a binary phase-shift keying channel without a phase-locked loop using Brillouin amplification. Optics Letters, 2016, 41, 5434.	3.3	10
47	Experimental measurements of multipath-induced intra- and inter-channel crosstalk effects in a millimeter-wave communications link using orbital-angular-momentum multiplexing. , 2015, , .		18
48	Impact of breather soliton in Kerr combs on the performance of communication systems. , 2015, , .		0
49	Experimental demonstration of 20 Gbit/s data encoding and 2 channels channel hopping using orbital angular momentum modes. Optics Letters, 2015, 40, 5810.	3.3	59
50	Ultradense Silicon Photonic Interface for Optical Interconnection. IEEE Photonics Technology Letters, 2015, 27, 725-728.	2.5	5
51	Free-space optical communications using orbital-angular-momentum multiplexing combined with MIMO-based spatial multiplexing. Optics Letters, 2015, 40, 4210.	3.3	69
52	Low-Cost Dispersion-Tuned Active Harmonic Mode-Locked Laser With a 3-cm Coherence Length. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 399-405.	2.9	3
53	Gain Effect on Scalable Energy-Proportional SOA-Based Optical Space Switches. IEEE Photonics Technology Letters, 2014, 26, 1683-1686.	2.5	5
54	Dispersion-Tuned Harmonically Mode-Locked Fiber Laser. IEEE Photonics Technology Letters, 2013, 25, 1916-1919.	2.5	2