

Alan E Willner

List of Publications by Year in descending order

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202
papers

15,105
citations

53939

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203
docs citations

203
times ranked

8465
citing authors

#	ARTICLE	IF	CITATIONS
1	Terabit free-space data transmission employing orbital angular momentum multiplexing. <i>Nature Photonics</i> , 2012, 6, 488-496.	15.6	3,471
2	Terabit-Scale Orbital Angular Momentum Mode Division Multiplexing in Fibers. <i>Science</i> , 2013, 340, 1545-1548.	6.0	2,330
3	High-capacity millimetre-wave communications with orbital angular momentum multiplexing. <i>Nature Communications</i> , 2014, 5, 4876.	5.8	972
4	Roadmap on structured light. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 013001.	1.0	888
5	All-Optical Signal Processing. <i>Journal of Lightwave Technology</i> , 2014, 32, 660-680.	2.7	464
6	100-Tbit/s free-space data link enabled by three-dimensional multiplexing of orbital angular momentum, polarization, and wavelength. <i>Optics Letters</i> , 2014, 39, 197.	1.7	443
7	4 – 20-Gbit/s mode division multiplexing over free space using vector modes and a q-plate mode (de)multiplexer. <i>Optics Letters</i> , 2015, 40, 1980.	1.7	372
8	Atmospheric turbulence effects on the performance of a free space optical link employing orbital angular momentum multiplexing. <i>Optics Letters</i> , 2013, 38, 4062.	1.7	233
9	Mode division multiplexing using an orbital angular momentum mode sorter and MIMO-DSP over a graded-index few-mode optical fibre. <i>Scientific Reports</i> , 2015, 5, 14931.	1.6	216
10	Broadband SBS Slow Light in an Optical Fiber. <i>Journal of Lightwave Technology</i> , 2007, 25, 201-206.	2.7	183
11	Adaptive-optics-based simultaneous pre- and post-turbulence compensation of multiple orbital-angular-momentum beams in a bidirectional free-space optical link. <i>Optica</i> , 2014, 1, 376.	4.8	177
12	Spectrally Efficient Direct-Detected OFDM Transmission Incorporating a Tunable Frequency Gap and an Iterative Detection Techniques. <i>Journal of Lightwave Technology</i> , 2009, 27, 5723-5735.	2.7	176
13	Performance metrics and design considerations for a free-space optical orbital-angular-momentum multiplexed communication link. <i>Optica</i> , 2015, 2, 357.	4.8	164
14	Spectrally efficient direct-detected OFDM transmission employing an iterative estimation and cancellation technique. <i>Optics Express</i> , 2009, 17, 9099.	1.7	159
15	Orbital Angular Momentum-based Space Division Multiplexing for High-capacity Underwater Optical Communications. <i>Scientific Reports</i> , 2016, 6, 33306.	1.6	156
16	Theoretical and Experimental Investigations of Direct-Detected RF-Tone-Assisted Optical OFDM Systems. <i>Journal of Lightwave Technology</i> , 2009, 27, 1332-1339.	2.7	142
17	Adaptive optics compensation of multiple orbital angular momentum beams propagating through emulated atmospheric turbulence. <i>Optics Letters</i> , 2014, 39, 2845.	1.7	138
18	Orbital angular momentum of light for communications. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	137

#	ARTICLE	IF	CITATIONS
19	Experimental characterization of a 400-Gbit/s orbital angular momentum multiplexed free-space optical link over 120 m. <i>Optics Letters</i> , 2016, 41, 622.	1.7	136
20	Recent advances in high-capacity free-space optical and radio-frequency communications using orbital angular momentum multiplexing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20150439.	1.6	131
21	Line-of-Sight Millimeter-Wave Communications Using Orbital Angular Momentum Multiplexing Combined With Conventional Spatial Multiplexing. <i>IEEE Transactions on Wireless Communications</i> , 2017, 16, 3151-3161.	6.1	130
22	A Different Angle on Light Communications. <i>Science</i> , 2012, 337, 655-656.	6.0	126
23	Broadband frequency translation through time refraction in an epsilon-near-zero material. <i>Nature Communications</i> , 2020, 11, 2180.	5.8	121
24	Crosstalk mitigation in a free-space orbital angular momentum multiplexed communication link using 4×4 MIMO equalization. <i>Optics Letters</i> , 2014, 39, 4360.	1.7	116
25	Phase correction for a distorted orbital angular momentum beam using a Zernike polynomials-based stochastic-parallel-gradient-descent algorithm. <i>Optics Letters</i> , 2015, 40, 1197.	1.7	101
26	Sorting Photons by Radial Quantum Number. <i>Physical Review Letters</i> , 2017, 119, 263602.	2.9	97
27	Experimental demonstration of a 200-Gbit/s free-space optical link by multiplexing Laguerre-Gaussian beams with different radial indices. <i>Optics Letters</i> , 2016, 41, 3447.	1.7	85
28	Silicon-Based Microring Resonator Modulators for Intensity Modulation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 149-158.	1.9	84
29	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. <i>Scientific Reports</i> , 2017, 7, 17427.	1.6	81
30	Fiber coupler for generating orbital angular momentum modes. <i>Optics Letters</i> , 2011, 36, 4269.	1.7	77
31	Atmospheric turbulence mitigation in an OAM-based MIMO free-space optical link using spatial diversity combined with MIMO equalization. <i>Optics Letters</i> , 2016, 41, 2406.	1.7	77
32	Atmospheric turbulence compensation in orbital angular momentum communications: Advances and perspectives. <i>Optics Communications</i> , 2018, 408, 68-81.	1.0	77
33	All-Optical Signal Processing Techniques for Flexible Networks. <i>Journal of Lightwave Technology</i> , 2019, 37, 21-35.	2.7	71
34	Underwater optical communications using orbital angular momentum-based spatial division multiplexing. <i>Optics Communications</i> , 2018, 408, 21-25.	1.0	70
35	Free-space optical communications using orbital-angular-momentum multiplexing combined with MIMO-based spatial multiplexing. <i>Optics Letters</i> , 2015, 40, 4210.	1.7	69
36	Optically Efficient Nonlinear Signal Processing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 320-332.	1.9	66

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37	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.	1.6	63
38	All-Optical Signal Processing for UltraHigh Speed Optical Systems and Networks. Journal of Lightwave Technology, 2012, 30, 3760-3770.	2.7	61
39	Experimental demonstration of 20 Gbit/s data encoding and 2 ns channel hopping using orbital angular momentum modes. Optics Letters, 2015, 40, 5810.	1.7	59
40	SBS-Based Fiber Optical Sensing Using Frequency-Domain Simultaneous Tone Interrogation. Journal of Lightwave Technology, 2011, 29, 1729-1735.	2.7	58
41	Efficient generation and multiplexing of optical orbital angular momentum modes in a ring fiber by using multiple coherent inputs. Optics Letters, 2012, 37, 3645.	1.7	58
42	400-Gbit/s QPSK free-space optical communication link based on four-fold multiplexing of Hermite-Gaussian or Laguerre-Gaussian modes by varying both modal indices. Optics Letters, 2018, 43, 3889.	1.7	55
43	Fiber-Based Slow-Light Technologies. Journal of Lightwave Technology, 2008, 26, 3752-3762.	2.7	54
44	Fiber structure to convert a Gaussian beam to higher-order optical orbital angular momentum modes. Optics Letters, 2012, 37, 3294.	1.7	53
45	N-dimensional multiplexing link with 1.036-Pbit/s transmission capacity and 112.6-bit/s/Hz spectral efficiency using OFDM-8QAM signals over 368 WDM pol-muxed 26 OAM modes. , 2014, , .		53
46	Perspectives on advances in high-capacity, free-space communications using multiplexing of orbital-angular-momentum beams. APL Photonics, 2021, 6, .	3.0	53
47	44-ns Continuously Tunable Dispersionless Optical Delay Element Using a PPLN Waveguide With Two-Pump Configuration, DCF, and a Dispersion Compensator. IEEE Photonics Technology Letters, 2007, 19, 861-863.	1.3	51
48	Communication with a twist. IEEE Spectrum, 2016, 53, 34-39.	0.5	48
49	Independent and Simultaneous Monitoring of Chromatic and Polarization-Mode Dispersion in OOK and DPSK Transmission. IEEE Photonics Technology Letters, 2007, 19, 3-5.	1.3	46
50	Turbulence compensation of an orbital angular momentum and polarization-multiplexed link using a data-carrying beacon on a separate wavelength. Optics Letters, 2015, 40, 2249.	1.7	46
51	Turbulence-resilient pilot-assisted self-coherent free-space optical communications using automatic optoelectronic mixing of many modes. Nature Photonics, 2021, 15, 743-750.	15.6	45
52	160 Gb/s Time-Domain Channel Extraction/Insertion and All-Optical Logic Operations Exploiting a Single PPLN Waveguide. Journal of Lightwave Technology, 2009, 27, 4221-4227.	2.7	40
53	Multipath Effects in Millimetre-Wave Wireless Communication using Orbital Angular Momentum Multiplexing. Scientific Reports, 2016, 6, 33482.	1.6	37
54	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.	1.7	37

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55	640 Gb/s All-Optical Regenerator Based on a Periodically Poled Lithium Niobate Waveguide. <i>Journal of Lightwave Technology</i> , 2012, 30, 1829-1834.	2.7	36
56	Vector-mode multiplexing brings an additional approach for capacity growth in optical fibers. <i>Light: Science and Applications</i> , 2018, 7, 18002-18002.	7.7	36
57	Perspective on using multiple orbital-angular-momentum beams for enhanced capacity in free-space optical communication links. <i>Nanophotonics</i> , 2020, 10, 225-233.	2.9	36
58	A Single Slow-Light Element for Independent Delay Control and Synchronization on Multiple Gb/s Data Channels. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1081-1083.	1.3	34
59	Silicon-on-Nitride Waveguide With Ultralow Dispersion Over an Octave-Spanning Mid-Infrared Wavelength Range. <i>IEEE Photonics Journal</i> , 2012, 4, 126-132.	1.0	34
60	On-Chip Octave-Spanning Supercontinuum in Nanostructured Silicon Waveguides Using Ultralow Pulse Energy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 1799-1806.	1.9	33
61	Experimental Mitigation of Atmospheric Turbulence Effect Using Pre-Signal Combining for Uni- and Bi-Directional Free-Space Optical Links With Two 100-Gbit/s OAM-Multiplexed Channels. <i>Journal of Lightwave Technology</i> , 2020, 38, 82-89.	2.7	33
62	Using all transverse degrees of freedom in quantum communications based on a generic mode sorter. <i>Optics Express</i> , 2019, 27, 10383.	1.7	33
63	Hermite-Gaussian mode sorter. <i>Optics Letters</i> , 2018, 43, 5263.	1.7	33
64	Power loss mitigation of orbital-angular-momentum-multiplexed free-space optical links using nonzero radial index Laguerre-Gaussian beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1.	0.9	32
65	Estimation of the Bit Error Rate for Direct-Detected OFDM Signals With Optically Preamplified Receivers. <i>Journal of Lightwave Technology</i> , 2009, 27, 1340-1346.	2.7	31
66	Low loss hollow-core waveguide on a silicon substrate. <i>Nanophotonics</i> , 2012, 1, 23-29.	2.9	31
67	Spatial light structuring using a combination of multiple orthogonal orbital angular momentum beams with complex coefficients. <i>Optics Letters</i> , 2017, 42, 991.	1.7	31
68	Digital Modulation of Coherently-Coupled 2×1 Vertical-Cavity Surface-Emitting Laser Arrays. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 173-176.	1.3	30
69	Adiabatic Frequency Conversion Using a Time-Varying Epsilon-Near-Zero Metasurface. <i>Nano Letters</i> , 2021, 21, 5907-5913.	4.5	30
70	32-Gbit/s 60-GHz millimeter-wave wireless communication using orbital angular momentum and polarization multiplexing. , 2016, , .		29
71	High-Speed Correlation and Equalization Using a Continuously Tunable All-Optical Tapped Delay Line. <i>IEEE Photonics Journal</i> , 2012, 4, 1220-1235.	1.0	28
72	Orbital-angular-momentum-multiplexed free-space optical communication link using transmitter lenses. <i>Applied Optics</i> , 2016, 55, 2098.	2.1	27

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73	High-fidelity spatial mode transmission through a 1-km-long multimode fiber via vectorial time reversal. <i>Nature Communications</i> , 2021, 12, 1866.	5.8	27
74	Dynamic spatiotemporal beams that combine two independent and controllable orbital-angular-momenta using multiple optical-frequency-comb lines. <i>Nature Communications</i> , 2020, 11, 4099.	5.8	25
75	Pattern Dependence of Data Distortion in Slow-Light Elements. <i>Journal of Lightwave Technology</i> , 2007, 25, 1754-1760.	2.7	24
76	Reconfigurable Channel Slicing and Stitching for an Optical Signal to Enable Fragmented Bandwidth Allocation Using Nonlinear Wave Mixing and an Optical Frequency Comb. <i>Journal of Lightwave Technology</i> , 2018, 36, 440-446.	2.7	24
77	Photon Acceleration Using a Time-Varying Epsilon-near-Zero Metasurface. <i>ACS Photonics</i> , 2021, 8, 716-720.	3.2	24
78	Experimental Demonstration of a Coherently Modulated and Directly Detected Optical OFDM System Using an RF-Tone Insertion. , 2008, , .		23
79	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.	2.7	23
80	A dual-channel 60 GHz communications link using patch antenna arrays to generate data-carrying orbital-angular-momentum beams. , 2016, , .		22
81	Spatially multiplexed orbital-angular-momentum-encoded single photon and classical channels in a free-space optical communication link. <i>Optics Letters</i> , 2017, 42, 4881.	1.7	22
82	Optical Signal Processing Aided by Optical Frequency Combs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-16.	1.9	22
83	Modal coupling and crosstalk due to turbulence and divergence on free space THz links using multiple orbital angular momentum beams. <i>Scientific Reports</i> , 2021, 11, 2110.	1.6	21
84	Correction of Phase Distortion of an OAM Mode using GS Algorithm based Phase Retrieval. , 2012, , .		21
85	Performance of real-time adaptive optics compensation in a turbulent channel with high-dimensional spatial-mode encoding. <i>Optics Express</i> , 2020, 28, 15376.	1.7	21
86	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. <i>Research</i> , 2019, 2019, 8326701.	2.8	21
87	Demonstration of Tunable Steering and Multiplexing of Two 28â€‰GHz Data Carrying Orbital Angular Momentum Beams Using Antenna Array. <i>Scientific Reports</i> , 2016, 6, 37078.	1.6	20
88	ANN-Based Optical Performance Monitoring of QPSK Signals Using Parameters Derived From Balanced-Detected Asynchronous Diagrams. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 248-250.	1.3	19
89	Experimental measurements of multipath-induced intra- and inter-channel crosstalk effects in a millimeter-wave communications link using orbital-angular-momentum multiplexing. , 2015, , .		18
90	All mirrors are not created equal. <i>Nature Photonics</i> , 2007, 1, 87-88.	15.6	17

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91	Experimental demonstration of 16 Gbit/s millimeter-wave communications using MIMO processing of 2 OAM modes on each of two transmitter/receiver antenna apertures. , 2014, , .		17
92	Experimental demonstration of 16-Gbit/s millimeter-wave communications link using thin metamaterial plates to generate data-carrying orbital-angular-momentum beams. , 2015, , .		17
93	OFDM over mm-Wave OAM Channels in a Multipath Environment with Intersymbol Interference. , 2016, , .		17
94	Experimental Demonstration of 340 km SSMF Transmission Using a Virtual Single Sideband OFDM Signal that Employs Carrier Suppressed and Iterative Detection Techniques. , 2008, , .		16
95	25.6-bit/s/Hz spectral efficiency using 16-QAM signals over pol-muxed multiple orbital-angular-momentum modes. , 2011, , .		16
96	Extending the Dynamic Range of Sweep-Free Brillouin Optical Time-Domain Analyzer. Journal of Lightwave Technology, 2015, 33, 2978-2985.	2.7	16
97	Invited Article: Division and multiplication of the state order for data-carrying orbital angular momentum beams. APL Photonics, 2016, 1, .	3.0	16
98	Photonic Generation of Ultra-Wideband Signals via Pulse Compression in a Highly Nonlinear Fiber. IEEE Photonics Technology Letters, 2010, 22, 239-241.	1.3	15
99	Photonic 640-Gb/s Reconfigurable OTDM Add-€"Drop Multiplexer Based on Pump Depletion in a Single PPLN Waveguide. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 709-716.	1.9	15
100	Multimode Communications Using Orbital Angular Momentum. , 2013, , 569-615.		15
101	Demonstration of Multiple Kerr-Frequency-Comb Generation Using Different Lines From Another Kerr Comb Located Up To 50 km Away. Journal of Lightwave Technology, 2019, 37, 579-584.	2.7	15
102	Coherent optical wireless communication link employing orbital angular momentum multiplexing in a ballistic and diffusive scattering medium. Optics Letters, 2019, 44, 691.	1.7	15
103	Simultaneous and Independent Monitoring of OSNR, Chromatic and Polarization Mode Dispersion for NRZ-OOK, DPSK and Duobinary. , 2007, , .		14
104	Silicon microring-based signal modulation for chip-scale optical interconnection. Applied Physics A: Materials Science and Processing, 2009, 95, 1089-1100.	1.1	14
105	High-Speed Optical WDM-to-TDM Conversion Using Fiber Nonlinearities. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1441-1447.	1.9	14
106	Introduction to the Issue on Optical Modulators-€"Technologies and Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 3-5.	1.9	14
107	Tunable generation and angular steering of a millimeter-wave orbital-angular-momentum beam using differential time delays in a circular antenna array. , 2016, , .		14
108	Demonstration of Turbulence Resiliency in a Mode-, Polarization-, and Wavelength-Multiplexed Free-Space Optical Link Using Pilot-Assisted Optoelectronic Beam Mixing. Journal of Lightwave Technology, 2022, 40, 588-596.	2.7	14

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109	Advanced Techniques to Increase the Number of Users and Bit Rate in OCDMA Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1403-1414.	1.9	13
110	Increasing system tolerance to turbulence in a 100-Gbit/s QPSK free-space optical link using both mode and space diversity. Optics Communications, 2021, 480, 126488.	1.0	13
111	Multiprobe Time Reversal for High-Fidelity Vortex-Mode-Division Multiplexing Over a Turbulent Free-Space Link. Physical Review Applied, 2021, 15, .	1.5	13
112	Demonstration of using two aperture pairs combined with multiple-mode receivers and MIMO signal processing for enhanced tolerance to turbulence and misalignment in a 10 Gbit/s QPSK FSO link. Optics Letters, 2020, 45, 3042.	1.7	13
113	Experimental Demonstration of Reduced Complexity 43-Gb/s RZ-DQPSK Rate-Tunable Receiver. IEEE Photonics Technology Letters, 2008, 20, 1166-1168.	1.3	12
114	Multi-channel 100-Gbit/s DQPSK data exchange using bidirectional degenerate four-wave mixing. Optics Express, 2011, 19, 3332.	1.7	12
115	Experimental Demonstration of Dynamic Bandwidth Allocation Using a MEMS-Actuated Bandwidth-Tunable Microdisk Resonator Filter. IEEE Photonics Technology Letters, 2007, 19, 1508-1510.	1.3	11
116	Multichannel SBS Slow Light Using Spectrally Sliced Incoherent Pumping. Journal of Lightwave Technology, 2008, 26, 3763-3769.	2.7	11
117	Demonstration of 8-mode 32-Gbit/s millimeter-wave free-space communication link using 4 orbital-angular-momentum modes on 2 polarizations. , 2014, , .		11
118	Experimental mitigation of the effects of the limited size aperture or misalignment by singular-value-decomposition-based beam orthogonalization in a free-space optical link using Laguerre-Gaussian modes. Optics Letters, 2020, 45, 6310.	1.7	11
119	Direct-detected polarization division multiplexed OFDM systems with self-polarization diversity. , 2008, , .		10
120	Orthogonal tributary channel exchange of 160-Gbit/s pol-muxed DPSK signal. Optics Express, 2010, 18, 16995.	1.7	10
121	Demonstration of 12.8-bit/s/Hz Spectral Efficiency using 16-QAM Signals over Multiple Orbital-Angular-Momentum Modes. , 2011, , .		10
122	Utilizing adaptive optics to mitigate intra-modal-group power coupling of graded-index few-mode fiber in a 200-Gbit/s mode-division-multiplexed link. Optics Letters, 2020, 45, 3577.	1.7	10
123	Directionally Resolved Measurement and Modeling of THz Band Propagation Channels. IEEE Open Journal of Antennas and Propagation, 2022, 3, 663-686.	2.5	9
124	10 Gbit/s tributary channel exchange of 160 Gbit/s signals using periodically poled lithium niobate. Optics Letters, 2011, 36, 630.	1.7	8
125	Experimental demonstration of a dual-channel E-band communication link using commercial impulse radios with orbital angular momentum multiplexing. , 2017, , .		8
126	Experimental demonstration of beaconless beam displacement tracking for an orbital angular momentum multiplexed free-space optical link. Optics Letters, 2018, 43, 2392.	1.7	8

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127	Utilizing phase delays of an integrated pixel-array structure to generate orbital-angular-momentum beams with tunable orders and a broad bandwidth. <i>Optics Letters</i> , 2020, 45, 4144.	1.7	8
128	Self-Coherent Decision-Feedback-Directed 40-Gb/s DQPSK Receiver. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 828-830.	1.3	7
129	Adjustable Chirp Injection-Locked 1.55- μm VCSELs for Enhanced Chromatic Dispersion Compensation at 10-Gbit/s. , 2008, , .		7
130	Using Orbital Angular Momentum Modes for Optical Transmission. , 2014, , .		7
131	Simultaneous turbulence mitigation and channel demultiplexing using a single multi-plane light convertor for a free-space optical link with two 100-Gbit/s OAM channels. <i>Optics Communications</i> , 2021, 501, 127359.	1.0	7
132	Space division multiplexing in a basis of vector modes. , 2014, , .		6
133	Performance metrics and design parameters for an FSO communications link based on multiplexing of multiple orbital-angular-momentum beams. , 2014, , .		6
134	Light, the universe and everything – 12 Herculean tasks for quantum cowboys and black diamond skiers. <i>Journal of Modern Optics</i> , 2018, 65, 1261-1308.	0.6	6
135	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.	1.0	6
136	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.	2.7	6
137	Simultaneous turbulence mitigation and channel demultiplexing for two 100-Gbit/s orbital-angular-momentum multiplexed beams by adaptive wavefront shaping and diffusing. <i>Optics Letters</i> , 2020, 45, 702.	1.7	6
138	SOA-Assisted Data-Polarization-Insensitive Wavelength Conversion in a PPLN Waveguide. <i>Journal of Lightwave Technology</i> , 2008, 26, 1690-1695.	2.7	5
139	Review of Robust Data Exchange Using Optical Nonlinearities. <i>International Journal of Optics</i> , 2012, 2012, 1-25.	0.6	5
140	Tunable Homodyne Detection of an Incoming QPSK Data Signal Using Two Fixed Pump Lasers. <i>Journal of Lightwave Technology</i> , 2015, 33, 1344-1350.	2.7	5
141	Experimental Demonstration of Crosstalk Reduction to Achieve Turbulence-Resilient Multiple-OAM-Beam Free-Space Optical Communications using Pilot Tones to Mix Beams at the Receiver. , 2020, , .		5
142	Localization from the unique intensity gradient of an orbital-angular-momentum beam. <i>Optics Letters</i> , 2017, 42, 395.	1.7	5
143	CTH01-5: A Novel Optical CDMA Modulation Scheme: Code Cycle Modulation. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006, , .	0.0	4
144	40-GHz CSRZ Optical Pulse Generation Using a 10-GHz Mach-Zehnder Modulator and a 25-ps Delay Line Interferometer. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007, , .	0.0	4

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145	Polarization-Based 43 Gb/s RZ-DQPSK Receiver Design Employing a Single Delay-Line Interferometer. , 2007, , .		4
146	Synchronization Monitoring of I/Q Data and Pulse Carving Misalignment for a Parallel-Type RZ-DQPSK Transmitter by Measuring RF Clock Tone/Low Frequency Power. IEEE Photonics Technology Letters, 2008, 20, 2138-2140.	1.3	4
147	Experimental demonstration of 1600 km SSMF transmission of a generalized direct detection optical virtual SSB-OFDM system. , 2008, , .		4
148	Generating spectral-efficient duobinary data format from silicon ring resonator modulators. , 2008, , .		4
149	Training of neural networks to perform optical performance monitoring of a combination of accumulated signal nonlinearity, CD, PMD, and OSNR. , 2008, , .		4
150	Experimental Synchronization Monitoring of I/Q Data and Pulse-Carving Temporal Misalignment for a Serial-Type 80-Gbit/s RZ-DQPSK Transmitter. , 2008, , .		4
151	Reconfigurable Multifunctional Operation Using Optical Injection-Locked Vertical-Cavity Surface-Emitting Lasers. Journal of Lightwave Technology, 2009, 27, 2958-2963.	2.7	4
152	Spatial-Mode Multicasting of a Single 100-Gbit/s Orbital Angular Momentum (OAM) Mode onto Multiple OAM Modes. , 2012, , .		4
153	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
154	Demonstration of Recovering Orbital-Angular-Momentum Multiplexed Channels Using a Tunable, Broadband Pixel-Array-Based Photonic-Integrated-Circuit Receiver. Journal of Lightwave Technology, 2022, 40, 1346-1352.	2.7	4
155	Protocols to eliminate tuning penalties for packet-switched WDM star networks with large tuning latency. Journal of High Speed Networks, 1997, 6, 15-31.	0.6	3
156	Multi-format Continuously Variable Bitrate DPSK/OOK Demodulating Receiver Design. , 2006, , .		3
157	Variable Bit Rate Optical CDMA Networks Using Multiple Pulse Position Modulation. , 2007, , .		3
158	Optical pseudo-random bit sequence generator using a dual-drive Mach-Zehnder modulator as a linear feedback shift register. , 2008, , .		3
159	Optical performance monitoring to enable robust and reconfigurable optical high-capacity networks. , 2009, , .		3
160	Ultimate Sensitivity for Optically Pre-amplified Direct-Detected OFDM Systems Using Spectrally Matched Optical Filters. IEEE Photonics Technology Letters, 2009, 21, 1764-1766.	1.3	3
161	High-Purity Generation and Power-Efficient Multiplexing of Optical Orbital Angular Momentum (OAM) Modes in a Ring Fiber for Spatial-Division Multiplexing Systems. , 2012, , .		3
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