Kaiheng Zou

List of Publications by Year
in descending order

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Version: 2024-02-01

48 papers	653 citations	687363 13 h-index	610901 24 g-index
48 all docs	48 docs citations	48 times ranked	490 citing authors

#	Article	IF	Citations
1	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.	4.6	4
2	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.	4.6	14
3	Experimental Demonstration of Sub-THz Wireless Communications Using Multiplexing of Laguerre-Gaussian Beams When Varying two Different Modal Indices. Journal of Lightwave Technology, 2022, 40, 3285-3292.	4.6	13
4	Remotely biasing, controlling, and monitoring a network routing node based on optically provided signals. , 2022, , .		0
5	Experimental Demonstration of a 100-Gbit/s 16-QAM Free-Space Optical Link Using a Structured Optical â€œBottle Beamâ€•to Circumvent Obstructions. Journal of Lightwave Technology, 2022, 40, 3277-3284.	4.6	2
6	Demonstration of Turbulence Resilient Self-Coherent Free-Space Optical Communications Using a Pilot Tone and an Array of Smaller Photodiodes for Bandwidth Enhancement. , 2022, , .		2
7	Synthesis of near-diffraction-free orbital-angular-momentum space-time wave packets having a controllable group velocity using a frequency comb. Optics Express, 2022, 30, 16712.	3.4	7
8	Spaceâ€“time light sheet with a controllable group velocity and reduced diffraction by combining multiple frequencies each carrying multiple Laguerreâ€“Gaussian modes. Optics Communications, 2022, 520, 128477.	2.1	0
9	Experimental demonstration of remotely controlled tunable optical correlators of 10â€“50 Gbaud QPSK channels using linear and nonlinear components and laser-delivered powers. Optics Communications, 2022, 523, 128698.	2.1	1
10	Experimental Demonstration of an Integrated Broadband Pixel-Array Structure Generating Two Tunable Orbital-Angular-Momentum Mode Values and Carrying 100-Gbit/s QPSK Data. , 2021, , .		3
11	Optical Signal Processing Aided by Optical Frequency Combs. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-16.	2.9	22
12	Demonstration of generating a 100 Gbit/s orbital-angular-momentum beam with a tunable mode order over a range of wavelengths using an integrated broadband pixel-array structure. Optics Letters, 2021, 46, 4765.	3.3	5
13	Simulation of near-diffraction- and near-dispersion-free OAM pulses with controllable group velocity by combining multiple frequencies, each carrying a Bessel mode. Optics Letters, 2021, 46, 4678.	3.3	9
14	Experimental demonstration of remotely powered, controlled, and monitored optical switching based on laser-delivered signals. Optics Letters, 2021, 46, 4589.	3.3	4
15	Turbulence-resilient pilot-assisted self-coherent free-space optical communications using automatic optoelectronic mixing of many modes. Nature Photonics, 2021, 15, 743-750.	31.4	45
16	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. Optics Communications, 2021, 501, 127359.	2.1	7
17	Orbital angular momentum of light for communications. Applied Physics Reviews, 2021, 8, .	11.3	137
18	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. Journal of Lightwave Technology, 2020, 38, 359-365.	4.6	23

#	Article	IF	Citations
19	Demonstration of wavelength tunable optical modulation format conversion from 20 and 30 Gbit/s QPSK to PAM4 using nonlinear wave mixing. Optics Communications, 2020, 459, 124871.	2.1	6
20	High-Speed Coherent Optical Communication With Isolator-Free Heterogeneous Si/III-V Lasers. Journal of Lightwave Technology, 2020, 38, 6584-6590.	4.6	11
21	Continuous delay tunability using a combination of three types of fiber Bragg gratings, wavelength conversion, and wavelength multicasting with a frequency comb. Optics Communications, 2020, 464, 125431.	2.1	1
22	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
23	Near-Diffraction- and Near-Dispersion-Free OAM Pulse Having a Controllable Group Velocity by Coherently Combining Different Bessel Beams Based on Space-Time Correlations. , 2020, , .		1
24	Demonstration of using two aperture pairs combined with multiple-mode receivers and MIMO signal processing for enhanced tolerance to turbulence and misalignment in a 10â€‰â€‰Gbit/s QPSK FSO link. Optics Letters, 2020, 45, 3042.	3.3	13
25	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.	3.3	10
26	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 Laguerreâ€“Gaussian modes. Optics Letters, 2020, 45, 6310.	3.3	11
27	Demonstration of Turbulence Resiliency in a Mode-, Polarization-, and Wavelength-Multiplexed Free-Space Optical Link using Pilot Tones and Optoelectronic Wave Mixing. , 2020, , .		2
28	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
29	Kramersâ€“Kronig detection of four 20â€‰â€‰Gbaud 16-QAM channels using Kerr combs for a shared phase estimation. Optics Letters, 2020, 45, 1794.	3.3	1
30	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.	4.6	15
31	Optical Mitigation of Interchannel Crosstalk for Multiple Spectrally Overlapped 20-GBd QPSK/16-QAM WDM Channels Using Nonlinear Wave Mixing. Journal of Lightwave Technology, 2019, 37, 548-554.	4.6	6
32	All-Optical Signal Processing Techniques for Flexible Networks. Journal of Lightwave Technology, 2019, 37, 21-35.	4.6	71
33	Using a Hybrid Si/III-V Semiconductor Laser to Carry 16- and 64-QAM Data Signals over an 80-km Distance. , 2019, , .		3
34	Demonstration of Kramers-Kronig Detection of Four 20-Gbaud 16-QAM Channels after 50-km Transmission Using Kerr Combs to Perform Shared Phase Estimation. , 2019, , .		2
35	Experimental demonstration of three-fold wavelength multicasting of a 64-QAM 120-Gbit/s data channel using a Kerr frequency comb and nonlinear wave mixing. , 2019, , .		0
36	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

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37	A 70 Gbps NRZ optical link based on 850 nm band-limited VCSEL for data-center intra-connects. Science China Information Sciences, 2018, 61, 1.	4.3	9
38	Scalable and Reconfigurable Optical Tap-Delay-Line for Multichannel Equalization and Correlation of 20-Gbaud QPSK Signals using Nonlinear Wave Mixing and a Microresonator Kerr Frequency Comb. , 2018, , .		0
39	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
40	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
41	224 Gb/s Optical Carrier-Assisted Nyquist 16-QAM Half-Cycle Single-Sideband Direct Detection Transmission over 160 km SSMF. Journal of Lightwave Technology, 2017, 35, 1557-1565.	4.6	20
42	C-Band 112 Gb/s Nyquist Single Sideband Direct Detection Transmission Over 960 km SSMF. IEEE Photonics Technology Letters, 2017, 29, 651-654.	2.5	9
43	High Speed Band-Limited 850-nm VCSEL Link Based on Time-Domain Interference Elimination. IEEE Photonics Technology Letters, 2017, 29, 751-754.	2.5	22
44	Beyond 200G Direct Detection Transmission With Nyquist Asymmetric Twin-SSB Signal at C-Band. Journal of Lightwave Technology, 2017, 35, 3629-3636.	4.6	24
45	Single Carrier 400G Transmission With Single-Ended Heterodyne Detection. IEEE Photonics Technology Letters, 2017, 29, 1788-1791.	2.5	23
46	4Ã—200Gb/s Twin-SSB Nyquist Subcarrier Modulation WDM Transmission over 160km SSMF with Direct Detection. , 2017, , .		2
47	Spectrally efficient terabit optical transmission with Nyquist 64-QAM half-cycle subcarrier modulation and direct detection. Optics Letters, 2016, 41, 2767.	3.3	49
48	Demonstration of turbulence mitigation in a 200-Gbit/s orbital-angular-momentum multiplexed free-space optical link using simple power measurements for determining the modal crosstalk matrix. Optics Letters, 0, , .	3.3	4