Mingyi Gao

List of Publications by Year
in descending order

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98	952	516681 16	501174 28
papers	citations	h-index	g-index

98	98	98	684
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectrum-Sharing-Maximized Approaches With Shared-Path Protection in Elastic Optical Data Center Networks. IEEE Internet of Things Journal, 2022, 9, 4721-4736.	8.7	6
2	Channel Estimation Based on Complex-Valued Neural Networks in IM/DD FBMC/OQAM Transmission System. Journal of Lightwave Technology, 2022, 40, 1055-1063.	4.6	8
3	Virtual Optical Network Mapping Approaches in Space-Division-Multiplexing Elastic Optical Data Center Networks. Journal of Lightwave Technology, 2022, 40, 3515-3529.	4.6	6
4	Experimental Comparison of Orthogonal Frequency Division Multiplexing and Universal Filter Multi-Carrier Transmission. Journal of Lightwave Technology, 2021, 39, 7052-7060.	4.6	3
5	IM/DD probabilistically shaped 64-QAM OFDM-PON transmission assisted by selective-mapping and flexible systematic polar code. Optics Communications, 2021, 490, 126912.	2.1	1
6	Optical Phase Conjugation With Complex-Valued Deep Neural Network for WDM 64-QAM Coherent Optical Systems. IEEE Photonics Journal, 2021, 13, 1-8.	2.0	9
7	Joint Modulation Format Identification and OSNR Estimation Using Complex-valued Neural Networks. , 2021, , .		0
8	Time-Domain Blind ICI Compensation in Coherent Optical FBMC/OQAM System. Sensors, 2020, 20, 6397.	3.8	1
9	Energy-efficient all optical wavelength converter for optical phase conjugation. Optical Fiber Technology, 2020, 58, 102278.	2.7	6
10	Accuracy Enhancement of Moments-Based OSNR Monitoring in QAM Coherent Optical Communication. IEEE Communications Letters, 2020, 24, 821-824.	4.1	12
11	Modulation format identification based on constellation diagrams in adaptive optical OFDM systems. Optics Communications, 2019, 452, 203-210.	2.1	8
12	Unsupervised Neural Network for Modulation Format Discrimination and Identification. IEEE Access, 2019, 7, 70077-70087.	4.2	6
13	Proportional Sign-cross-correlation for Symbol Timing Synchronization of OFDM-PON. , 2019, , .		1
14	FPGA Implementation of Distance-Independent Symbol Timing Synchronization in IM/DD OFDM-PON. IEEE Access, 2019, 7, 173731-173737.	4.2	1
15	Communication Framework of Hybrid Charging/Refueling Stations for Autonomous Vehicles. , 2019, , .		0
16	Modulation Format Identification for Adaptive Optical OFDM System. , 2019, , .		1
17	Compensation of Laser Phase Noise Based on Polar-Coordinates Decision. , 2019, , .		1
18	Physical Encryption Based on Chaotic Sequence-assisted Pseudo QAM Systems. , 2019, , .		0

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19	Low-Complexity Blind Carrier Phase Recovery for C-mQAM Coherent Systems. IEEE Photonics Journal, 2019, 11, 1-14.	2.0	4
20	Multidimensional vector quantization-based fast statistical estimation in compressed digitalized radio-over-fiber systems. Applied Optics, 2019, 58, 3418.	1.8	4
21	Performance improvement of 64-QAM coherent optical communication system by optimizing symbol decision boundary based on support vector machine. Optics Communications, 2018, 410, 1-7.	2.1	16
22	Noise-tolerant spiral 16-QAM system based on cascaded Kalman filters. , 2018, , .		1
23	Traffic Grooming Approaches in Flexible Bandwidth Optical Networks with Distributed Data Centers. , 2018, , .		1
24	Peak-to-average Power Ratio Suppression Based on MPGA-SLM. , 2018, , .		0
25	Dynamic Routing, Core, and Spectrum Assignment with Minimized Crosstalk in Spatial Division Multiplexing Elastic Optical Networks. , 2018, , .		10
26	Blind and Noise-Tolerant Modulation Format Identification. IEEE Photonics Technology Letters, 2018, 30, 1850-1853.	2.5	9
27	Intelligent adaptive coherent optical receiver based on convolutional neural network and clustering algorithm. Optics Express, 2018, 26, 18684.	3.4	30
28	Non-Data-Aided <italic>k</italic>-Nearest Neighbors Technique for Optical Fiber Nonlinearity Mitigation. Journal of Lightwave Technology, 2018, 36, 3564-3572.	4.6	34
29	Multi-population genetic algorithm for peak-to-average power ratio suppression in an optical OFDM transmission system. Applied Optics, 2018, 57, 10191.	1.8	5
30	Novel Low-Complexity Fully-Blind Density-Centroid â€“ Tracking Equalizer for 64-QAM Coherent Optical Communication Systems. , 2018, , .		4
31	Peak-to-average Power Ratio Suppression Based on Multi-stage Optimal Phase (MSOP)-SLM. , 2018, , .		0
32	Investigation of high gain dual-pump phase sensitive amplifiers. Optik, 2017, 135, 210-218.	2.9	4
33	A flexible millimeter-wave radio-over-fiber system for various transmission bit rate. Optics and Laser Technology, 2017, 96, 132-140.	4.6	7
34	Mitigating fiber nonlinearity using support vector machine with genetic algorithm. , 2017, , .		1
35	Mitigating bandwidth-limitation impairments based on transmitter-side DSP. , 2017, , .		0
36	K-means-clustering-based fiber nonlinearity equalization techniques for 64-QAM coherent optical communication system. Optics Express, 2017, 25, 27570.	3.4	77

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37	A simple all-optical wavelength converter based on cascaded highly nonlinear fibers with high conversion-efficiency. , 2017, , .		0
38	Energy-efficient grooming with distance-adaptive load balancing in flexible bandwidth optical networks. , 2017, , .		1
39	High-conversion-efficiency all-optical wavelength converter based on cascaded highly nonlinear fibers. Applied Optics, 2017, 56, 5871.	1.8	2
40	Migrating Elastic Optical Networks from Standard Single-Mode Fibers to Ultra-Low Loss Fibers: Strategies and Benefits. , 2017, , .		11
41	Machine-learning-based Coherent Optical Communication System. , 2017, , .		0
42	Distance-Adaptive Multilayer Traffic Grooming Approaches in IP-Over-Flexible Bandwidth Optical Networks. , 2017, , .		3
43	Energy-Efficient Traffic Grooming in 5G C-RAN Enabled Flexible Bandwidth Optical Networks. , 2017, , .		2
44	First Demonstration of Bandwidth-on-Demand All-Optical Intra-Data Center Network Supporting Joint Waveband and Sub-Waveband Switching. , 2017, , .		0
45	Regenerator sharing jointly with spectrum and modulation format conversion in SBPP-BASED elastic optical networks. , 2016, , .		0
46	A novel radio-over-fiber system with dual millimeter-wave signals generated simultaneously. Optik, 2016, 127, 6532-6540.	2.9	4
47	A simple scheme to generate two millimeter-wave signals for radio-over-fiber systems. , 2016, , .		1
48	Seamless all-optical bidirectional wavelength converter. , 2016, , .		2
49	Optimal Replica Servers Placement for Content Delivery Networks (Invited). , 2016, , .		1
50	Quadrature Squeezing and IQ De-Multiplexing of QPSK Signals by Sideband-Assisted Dual-Pump Phase Sensitive Amplifiers. IEICE Transactions on Communications, 2015, E98.B, 2227-2237.	0.7	4
51	Capacity efficiency of sub-wavelength traffic grooming in IP over Quasi-CWDM optical networks (invited). , 2015, , .		0
52	Nonlinear propagation in multicore fiber transmission link based on coupled mode analysis. , 2015, , .		1
53	Applying Hadoop Cloud Computing Technique to Optimal Design of Optical Networks (Invited). , 2015, , .		2
54	Electronic Traffic Grooming in Dedicated Path Protected IP over Elastic Optical Network. , 2015, , .		0

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55	Quadrature squeezing of phase modulated signals. , 2014, , .		0
56	Phase regeneration of phase encoded signals by hybrid optical phase squeezer. Optics Express, 2014, 22, 12177.	3.4	17
57	Sideband-Assisted Dual-Pump Phase Sensitive Amplifiers with Enhanced Phase Sensitivity. , 2014, , .		0
58	Tunable Optical Parametric Regenerator Assessment in a 43 Gb/s RZ-DPSK Signal Transmission Link. IEEE Photonics Technology Letters, 2014, 26, 629-632.	2.5	3
59	Pusle-width optimization of pulsed-pump fiber optical parametric amplifers. , 2014, , .		0
60	Simultaneous Phase Regeneration of CoWDM BPSK Signals by Hybrid Optical Phase Squeezer. , 2014, , .		0
61	Efficient phase regeneration of DPSK signal by sidebandâ€assisted dualâ€pump phaseâ€sensitive amplifier. Electronics Letters, 2013, 49, 140-141.	1.0	20
62	Low-penalty Phase De-multiplexing of QPSK Signal by Dual-pump Phase Sensitive Amplifiers. , 2013, , .		10
63	Efficient Quadrature Squeezing of QPSK Signals by Sideband-Assisted Dual-pump Phase Sensitive Amplifier. , 2013, , .		4
64	Phase Comparator using Phase Sensitive Amplifier for Phase Noise-Tolerant Carrier Phase Recovery of QPSK Signals. , 2013, , .		1
65	Reach Extension of 43-Gb/s RZ-DPSK Signal by Optical Parametric Regenerator. , 2013, , .		1
66	Evolution of the gain extinction ratio in dual-pump phase sensitive amplification. Optics Letters, 2012, 37, 1439.	3.3	31
67	Controlling Optical Signals Through Parametric Processes. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 717-725.	2.9	23
68	Optical parametric node devices for energy efficient networks. , 2012, , .		0
69	Enhancing the phase sensitivity of phase sensitive amplifiers for efficient phase regeneration. , 2012, , .		0
70	Sideband-Assisted Phase Sensitive Amplifiers with High Phase Sensitivity for Efficient Phase Regeneration. , 2012, , .		1
71	43-Gb/s Operation of Wavelength-Tunable Optical Parametric Regenerator. IEEE Photonics Technology Letters, 2011, 23, 718-720.	2.5	4
72	Wide range operation of regenerative optical parametric wavelength converter using ASE-degraded 43-Gb/s RZ-DPSK signals. Optics Express, 2011, 19, 23258.	3.4	20

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73	Wavelength-tunable optical parametric regenerator. , 2011, , .		0
74	Wavelength-Tunable Optical Parametric Regeneration for 10.75-Gbit/s and 43-Gbit/s RZ Signals. , 2011, , .		0
75	Design of uniform power transfer functions for tunable optical parametric regenerator. , 2010, , .		1
76	Parametric node devices for extremely low-energy networks. , 2010, , .		1
77	Wavelength-tunable optical parametric regenerator. Optics Letters, 2010, 35, 3468.	3.3	12
78	The Effect of Pump-Pump Four-Wave Mixing on Gain of Two-pump Phase Sensitive Optical Amplifiers. , 2009, , .		3
79	Channel drop filter in two-dimensional triangular lattice photonic crystals. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, A7.	1.5	26
80	Dispersion and polarization properties of elliptical air-hole-containing photonic crystal fibers. Optics and Laser Technology, 2007, 39, 913-917.	4.6	46
81	The effect of phase mismatch on two-pump fiber optical parametrical amplifier. Optics and Laser Technology, 2007, 39, 327-332.	4.6	5
82	Properties of index-guided PCF with air-core. Optics and Laser Technology, 2007, 39, 317-321.	4.6	49
83	The preparation of optical fibre nanoprobe and its application in spectral detection. Optics and Laser Technology, 2007, 39, 1025-1029.	4.6	13
84	Design and System Demonstration of a Tunable Slow-Light Delay Line Based on Fiber Parametric Process. IEEE Photonics Technology Letters, 2006, 18, 2575-2577.	2.5	23
85	Photonic crystal channel drop filter with a wavelength-selective reflection micro-cavity. Optics Express, 2006, 14, 2446.	3.4	132
86	Optimized design of two-pump fiber optical parametric amplifier and its noise characteristics. Optics Communications, 2006, 258, 321-328.	2.1	4
87	The effects of pump noise on noise characteristics of fiber optical parametric amplifiers. Optics Communications, 2006, 266, 181-186.	2.1	0
88	Modified design of photonic crystal fibers with flattened dispersion. Optics and Laser Technology, 2006, 38, 169-172.	4.6	57
89	Design and analysis of two-dimensional photonic crystals channel filter. Optics Communications, 2006, 266, 342-348.	2.1	17
90	Two-pump fiber optical parametric amplifiers with three-section fibers allocation. Optics and Laser Technology, 2006, 38, 186-191.	4.6	13

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91	High birefringence photonic bandgap fiber with elliptical air holes. Optical Fiber Technology, 2006, 12, 265-267.	2.7	21
92	The effects of pump phase modulation on noise characteristics of fiber optical parametric amplifiers. European Physical Journal D, 2006, 40, 431-436.	1.3	0
93	Photonic Crystal Power-splitter Based on Mode Splitting of Directional Coupling Waveguides. Optical and Quantum Electronics, 2006, 38, 645-654.	3.3	10
94	Two-pump fiber optical parametric amplifiers using optimized photonic crystal fiber by genetic algorithm. Applied Physics B: Lasers and Optics, 2006, 84, 433-438.	2.2	5
95	Dual-pump broadband fiber optical parametric amplifier with a three-section photonic crystal fiber scheme. , 2005, , .		8
96	Dispersion property of triple-cladding photonic crystal fiber. , 2005, , .		0
97	Optimized design of two-pump fiber optical parametric amplifier with two-section nonlinear fibers using genetic algorithm. Optics Express, 2004, 12, 5603.	3.4	44
98	High power diode single-end-pumped Nd:YVO4 laser. Optics and Laser Technology, 2003, 35, 445-449.	4.6	16