

Hongxiang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

447
citations

759233

12
h-index

940533

16
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56
all docs

56
docs citations

56
times ranked

223
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear decision boundary created by a machine learning-based classifier to mitigate nonlinear phase noise. , 2015, , .		50
2	All-optical signal processing technologies in flexible optical networks. Photonic Network Communications, 2019, 38, 14-36.	2.7	44
3	Key space enhancement of a chaos secure communication based on VCSELs with a common phase-modulated electro-optic feedback. Optics Express, 2020, 28, 23961.	3.4	24
4	Phase-sensitive amplifier-based optical conversion for direct detection of complex modulation format to bridge long-haul transmissions and short-reach interconnects. Optics Express, 2020, 28, 2349.	3.4	21
5	Multi-bit wavelength coding phase-shift-keying optical steganography based on amplified spontaneous emission noise. Optics Communications, 2018, 407, 1-8.	2.1	16
6	Time-delay signature concealing electro-optic chaotic system with multiply feedback nonlinear loops. Optics Express, 2021, 29, 706.	3.4	15
7	Three-loop electro-optical phase chaotic secure communication system with time-delay signatures concealment and key space enhancement. Optics Communications, 2022, 512, 128065.	2.1	14
8	Opaque virtual network mapping algorithms based on available spectrum adjacency for elastic optical networks. Science China Information Sciences, 2016, 59, 1.	4.3	13
9	Simultaneous All-Optical Channel Aggregation and De-Aggregation for 8QAM Signal in Elastic Optical Networking. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	13
10	2D-to-1D constellation reforming using phase-sensitive amplifier-based constellation squeezing and shifting. Optics Express, 2021, 29, 3724.	3.4	13
11	Electro-optic chaos system with time delay signature concealment based on XOR operation and multi-bit PRBS. Optics Express, 2021, 29, 7327.	3.4	13
12	Simultaneous all-optical channel aggregation and de-aggregation based on nonlinear effects for OOK and MPSK formats in elastic optical networking. Optics Express, 2019, 27, 30158.	3.4	13
13	Serial Multicast Mode in All-Optical Networks. IEEE Photonics Technology Letters, 2006, 18, 2416-2418.	2.5	12
14	Optical modulation format conversion from one QPSK to one BPSK with information-integrity-employing phase-sensitive amplifier. Applied Optics, 2017, 56, 5307.	2.1	11
15	QPSK Signal Regeneration Based on Vector Phase Sensitive Amplification With Low Pump Powers. IEEE Access, 2019, 7, 63936-63943.	4.2	11
16	Security-Enhanced Electro-Optic Feedback Phase Chaotic System Based on Nonlinear Coupling of Two Delayed Interfering Branches. IEEE Photonics Journal, 2018, 10, 1-15.	2.0	10
17	Reconfigurable Optical Network Intermediate Node With Full-Quadrature Regeneration and Format Conversion Capacity. Journal of Lightwave Technology, 2018, 36, 4691-4700.	4.6	10
18	All-optical aggregation and de-aggregation between 3-Å BPSK and 8QAM in HNLF with wavelength preserved. Applied Optics, 2020, 59, 1092.	1.8	10

#	ARTICLE	IF	CITATIONS
19	All-optical deaggregation from 8PSK to 3 $\sqrt{2}$ -BPSK based on FWM in HNLF. <i>Applied Optics</i> , 2019, 58, 1246.	1.8	9
20	Experimental demonstration of all-optical aggregation and de-aggregation for a QPSK signal in an elastic optical network. <i>Optics Express</i> , 2022, 30, 6456.	3.4	9
21	Optical chaos generation and synchronization in secure communication with electro-optic coupling mutual injection. <i>Optics Communications</i> , 2022, 521, 128565.	2.1	9
22	Hybrid Multicast Mode in All-Optical Networks. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1212-1214.	2.5	8
23	Design of All-Optical Modulation Format Converter From One 8PSK to Two QPSK Signals Based on Phase Sensitive Amplification in Elastic Optical Network. <i>IEEE Access</i> , 2019, 7, 51379-51385.	4.2	8
24	On-Chip Optical Vector Quadrature De-Multiplexer Proposal for QAM De-Aggregation by Single Bi-Directional SOA-Based Phase-Sensitive Amplifier. <i>IEEE Access</i> , 2019, 7, 763-772.	4.2	8
25	Wideband complex-enhanced bidirectional phase chaotic secure communication with time-delay signature concealment. <i>Chaos</i> , 2020, 30, 093138.	2.5	8
26	All-Optical Aggregation and De-Aggregation of 4 $\sqrt{2}$ -BPSK-16QAM Using Nonlinear Wave Mixing for Flexible Optical Network. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	2.9	8
27	A time-delay signature elimination and broadband electro-optic chaotic system with enhanced nonlinearity by deep learning. <i>Optics Express</i> , 2022, 30, 17698.	3.4	8
28	All-Optical Multi-Level Phase Quantization Based on Phase-Sensitive Amplification With Low-Order Harmonics. <i>Journal of Lightwave Technology</i> , 2018, 36, 5833-5840.	4.6	7
29	Multi-channel phase regeneration of QPSK signals based on phase sensitive amplification. <i>Frontiers of Optoelectronics</i> , 2019, 12, 24-30.	3.7	6
30	Early traffic identification using Bayesian networks. , 2010, , .		5
31	LP-DWBA: A DWBA algorithm based on linear prediction in TWDM-PON. , 2015, , .		5
32	All-Optical Phase Quantization with High Accuracy Based on a Multiwave Interference Phase Sensitive Amplifier. <i>IEEE Photonics Journal</i> , 2017, 9, 1-8.	2.0	5
33	All-optical simultaneous phase and amplitude regenerator based on a modified Mach-Zehnder interferometric phase sensitive amplifier. <i>Optical Engineering</i> , 2017, 56, 026101.	1.0	4
34	Analytical Solution of Amplitude Ratio in Optical Phase Quantization Based on Phase Sensitive Amplification. <i>Journal of Lightwave Technology</i> , 2018, , 1-1.	4.6	4
35	Tunable all-optical format conversion for BPSK to OOK based on highly nonlinear optical loop mirror. <i>Optics Communications</i> , 2020, 473, 125907.	2.1	4
36	All Optical Format Conversion of 8-PSK to 4-PAM Signals Based on Phase Sensitive Amplification. , 2017, , .		4

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37	Performance analyses of serial-mode multicasting scheme in optical packet switched networks. Photonic Network Communications, 2009, 17, 202-208.	2.7	2
38	A balancing scheme for QoS-aware service provisioning in OPS networks. Photonic Network Communications, 2012, 23, 198-203.	2.7	2
39	An inter multi-thread polling for bandwidth allocation in Long-Reach PON. , 2015, , .		2
40	A minimum wavelength tuning scheme for dynamic wavelength assignment in TWDM-PON. , 2015, , .		2
41	A GMPLS-based traffic engineering weighting scheme for reducing the routing overheads. , 2011, , .		1
42	All-optical phase regeneration for DP-QPSK/8PSK signals based on dual-conjugate pump degenerate phase sensitive amplification. Optics Communications, 2020, 473, 125847.	2.1	1
43	All-optical simultaneous amplitude and phase regeneration for MPSK signal with ASE noise based on two-wave PSA. Optics Communications, 2021, 499, 127281.	2.1	1
44	All-optical simultaneous multichannel quadrature phase shift keying signal regeneration based on phase-sensitive amplification. Optical Engineering, 2018, 57, 1.	1.0	1
45	Optical De-aggregation from 9QAM to PAM3 using Phase-sensitive Amplifier-based Optical Quadrature De-multiplexing and Two-level Vector Moving. , 2020, , .		1
46	Channel Characteristics Based Adjustable Fingerprint for Identity Authentication in WDM-PON With Deep Neural Networks. IEEE Photonics Journal, 2022, 14, 1-11.	2.0	1
47	Electro-optic chaotic system based on time delay feature hiding and key space enhancement based on chaotic post-processing. Applied Optics, 2022, 61, 5098.	1.8	1
48	The limitation of initial chirp and higher-order PMD to 40 G bit/s optical transmission systems. , 0, , .		0
49	Optimization of Two-Stage Higher-Order PMD Compensator with Five Degrees of Freedom. , 2006, , .		0
50	A novel optical Ethernet network analyzer transmitting self-similar traffic. , 2007, , .		0
51	Wavelength Tunable Optical Burst Ring Network Test-bed and Experimental Research. , 2007, , .		0
52	Parallel scheduling for distributed heterogeneous resources in multi-domain optical network. , 2010, , .		0
53	A dynamic backup reservation scheme for wavelength assignment in WSONs. , 2011, , .		0
54	A PCE-based dynamic backup-reservation wavelength assignment scheme for WSONs. Photonic Network Communications, 2012, 23, 191-197.	2.7	0

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55	Demonstration of optical channel de-aggregation for 8QAM Signal using FWM in HNLf. , 2018, , .		0
56	Investigation on the complex and tunable laser chaos generated by the microresonator optical combs injection. IEEE Journal of Selected Topics in Quantum Electronics, 2022, , 1-1.	2.9	0