

Shaopeng Liu

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

1,241
citations

361413

20
h-index

414414

32
g-index

82
all docs

82
docs citations

82
times ranked

751
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin separation based on-chip optical polarimeter via inverse design. <i>Nanophotonics</i> , 2022, 11, 813-819.	6.0	3
2	Highly Secure and Reliable 7-Core Fiber Optical OFDM Access System Based on Chaos Encryption Inside Polar Code. <i>IEEE Photonics Journal</i> , 2022, 14, 1-6.	2.0	9
3	High-security OCDM-PON system of 7-core fiber based on CFCM encryption. <i>Optics Letters</i> , 2022, 47, 186.	3.3	7
4	Chaotic Power Division Multiplexing for Secure Optical Multiple Access. <i>Journal of Lightwave Technology</i> , 2022, 40, 968-978.	4.6	8
5	Three-dimensional constellation diagram with a hierarchical level design for multi-core transmission. <i>Optics Express</i> , 2022, 30, 2877.	3.4	4
6	Compact Optical Fiber Sensor Based on Silica Capillary Tube for Simultaneous High Temperature and Transverse Load Measurement. <i>IEEE Photonics Journal</i> , 2022, 14, 1-8.	2.0	1
7	An Optical Sensor Designed From Cascaded Anti-Resonant Reflection Waveguide and Fiber Ring-Shaped Structure for Simultaneous Measurement of Refractive Index and Temperature. <i>IEEE Photonics Journal</i> , 2022, 14, 1-6.	2.0	5
8	Valley-Dependent Topological Photonic Crystals With Heterogeneous Bearded Interfaces for SOI-Based Integrated Optical Devices. <i>Journal of Lightwave Technology</i> , 2022, 40, 3864-3871.	4.6	0
9	Chaotic physical security strategy based on manifold learning-assisted GANs for SDM-OFDM-PONs. <i>Optics Letters</i> , 2022, 47, 1834.	3.3	5
10	Secure SDM-OFDM signal transmission based on memristive neural network. <i>Optics Communications</i> , 2022, 515, 128030.	2.1	4
11	Simultaneous measurement for amplitude and frequency of time-harmonic force based on optomechanically induced nonlinearity. <i>Journal of Applied Physics</i> , 2022, 131, 104401.	2.5	0
12	High-security multi-level constellation shaping trellis-coded modulation method based on clustering mapping rules. <i>Optics Express</i> , 2022, 30, 15401.	3.4	5
13	Photonic-Plasmonic Hybrid Nanocavity for Quasi-Bound States in the Continuum at Telecom Wavelengths. <i>IEEE Photonics Technology Letters</i> , 2022, 34, 379-382.	2.5	2
14	High-Sensitivity Liquid Level Sensor Based on the Balloon-Shaped Fiber Optic MZI. <i>IEEE Photonics Journal</i> , 2022, 14, 1-7.	2.0	1
15	Secure OCDM Mode Division Multiplexed Short-Reach Optical Communication Based on Time-Frequency Joint Perturbation. <i>Journal of Lightwave Technology</i> , 2022, 40, 4599-4606.	4.6	1
16	Secure OFDM transmission scheme based on chaotic encryption and noise-masking key distribution. <i>Optics Letters</i> , 2022, 47, 2903.	3.3	6
17	Modulation format recognition with transfer learning assisted convolutional neural network using multiple Stokes sectional plane image in multi-core fibers. <i>Optics Express</i> , 2022, 30, 21990.	3.4	3
18	High-Security Physical Layer Encryption Scheme for SCMA-FBMC in Four-Mode Fiber. <i>IEEE Photonics Journal</i> , 2022, 14, 1-8.	2.0	3

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19	Intelligent dynamic data perturbation OCDM encryption scheme based on cellular neural network and biological genetic encoding. Optics Express, 2022, 30, 22931.	3.4	1
20	Secure OFDM-PON using three-dimensional selective probabilistic shaping and chaos. Optics Express, 2022, 30, 25339.	3.4	15
21	Physical layer data encryption using two-level constellation masking in 3D-CAP-PON. Chinese Optics Letters, 2021, 19, 010601.	2.9	15
22	Gain-type optomechanically induced absorption and precise mass sensor in a hybrid optomechanical system. Journal of Applied Physics, 2021, 129, 084504.	2.5	4
23	FBMC/OQAM Security Strategy Based on Diversity DNA Encryption. IEEE Photonics Journal, 2021, 13, 1-11.	2.0	5
24	Plasmonic nanocavity for obtaining bound state in the continuum in silicon waveguides. Optics Express, 2021, 29, 9312.	3.4	9
25	Improved optical fiber Mach-Zehnder high-sensitivity refractive index sensor. Optik, 2021, 229, 166214.	2.9	8
26	Enhancement of Upper Second-Order Sidebands Based on Optomechanically Induced Absorption in a Double-Cavity Optomechanical System. IEEE Photonics Journal, 2021, 13, 1-11.	2.0	1
27	High-speed Stokes vector receiver enabled by a spin-dependent optical grating. Photonics Research, 2021, 9, 1470.	7.0	6
28	Enhancing the Reliability and Security of OFDM-PON Using Modified Lorenz Chaos Based on the Linear Properties of FFT. Journal of Lightwave Technology, 2021, 39, 4294-4299.	4.6	20
29	High security OFDM-PON based on an iterative cascading chaotic model and 4-D joint encryption. Optics Communications, 2021, 495, 127055.	2.1	6
30	Enhanced refractive index and temperature sensor based on balloon-shaped Mach-Zehnder interferometer. Optical Fiber Technology, 2021, 65, 102615.	2.7	5
31	A 7D Cellular Neural Network Based OQAM-FBMC Encryption Scheme for Seven Core Fiber. Journal of Lightwave Technology, 2021, 39, 7191-7198.	4.6	16
32	PAPR-Degraded Secure OFDM-WDM-PON Based on Chaotic Set-Partitioned SLM. IEEE Photonics Technology Letters, 2021, 33, 1387-1390.	2.5	10
33	Transfer learning assisted convolutional neural networks for modulation format recognition in few-mode fibers. Optics Express, 2021, 29, 36953.	3.4	12
34	Fiber sensor based on Fabry-Perot/Mach-Zehnder hybrid interferometer for transverse load and temperature. Microwave and Optical Technology Letters, 2021, 63, 679-684.	1.4	2
35	200 Gbit/s PDM-PAM-4 PON system based on intensity modulation and coherent detection. Journal of Optical Communications and Networking, 2020, 12, A1.	4.8	37
36	Optical fiber temperature sensor with insensitive refractive index and strain based on phase demodulation. Microwave and Optical Technology Letters, 2020, 62, 3733-3738.	1.4	7

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37	Secure Optical 3D Probabilistic Shaping CAP System Based on Spherical Constellation Masking. IEEE Photonics Technology Letters, 2020, 32, 1171-1174.	2.5	9
38	High-Security Multi-Slot Chaos Encryption With Dynamic Probability for 16-CAP PON. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	5
39	All-Optical OOK -to-QPSK Modulation Format Conversion With Wavelength Multicasting Based on Cascaded SOA Configuration. IEEE Access, 2020, 8, 77843-77849.	4.2	2
40	High-Security Physical Layer in CAP-PON System Based on Floating Probability Disturbance. IEEE Photonics Technology Letters, 2020, 32, 367-370.	2.5	17
41	Enhanced Three-Core Three-Mode Optical Transmission System Based on Probabilistic Shaping With Low Complexity MIMO Equalization Algorithm. IEEE Access, 2020, 8, 106136-106146.	4.2	3
42	Security-Enhanced 3D-CAP-PON Based on Two-Stage Spherical Constellation Masking. IEEE Access, 2020, 8, 111966-111973.	4.2	12
43	Demonstration of SDN-Enabled Hybrid Polling Algorithm for Packet Contention Resolution in Optical Data Center Network. Journal of Lightwave Technology, 2020, 38, 3296-3304.	4.6	7
44	Flexible Probabilistic Shaping PON Based on Ladder-Type Probability Model. IEEE Access, 2020, 8, 34170-34176.	4.2	5
45	Three-Dimensional Probabilistically Shaped CAP Modulation Based on Constellation Design Using Regular Tetrahedron Cells. Journal of Lightwave Technology, 2020, 38, 1728-1734.	4.6	20
46	Three-parameter measurement optical fiber sensor based on a hybrid structure. Applied Optics, 2020, 59, 8190.	1.8	13
47	High security OFDM-PON with a physical layer encryption based on 4D-hyperchaos and dimension coordination optimization. Optics Express, 2020, 28, 21236.	3.4	40
48	Security-enhanced OFDM-PON with two-level coordinated encryption strategy at the bit-level and symbol-level. Optics Express, 2020, 28, 35061.	3.4	11
49	Chaotic constant composition distribution matching for physical layer security in a PS-OFDM-PON. Optics Express, 2020, 28, 39266.	3.4	41
50	5D data iteration in a multi-wavelength OFDM-PON using the hyperchaotic system. Optics Letters, 2020, 45, 4960.	3.3	20
51	Enhanced 3D-CAP modulation with information-inserted time slots for seven-core fiber transmissions. Optics Express, 2020, 28, 24991.	3.4	9
52	A Probabilistically Shaped CAP Modulation Method Employing Multiple Subsets Mapping With Symbol Classification for a Short Reach Communication. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	3
53	A novel fiber in-line Michelson interferometer based on end face packaging for temperature and refractive index measurement. Optik, 2019, 194, 163094.	2.9	20
54	Intelligent 2-Dimensional Soft Decision Enabled by K-Means Clustering for VCSEL-Based 112-Gbps PAM-4 and PAM-8 Optical Interconnection. Journal of Lightwave Technology, 2019, 37, 6133-6146.	4.6	16

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55	Assessment of Adaptive Polling Contention Resolution for Optical Switching in Edge Data Center Networking. IEEE Photonics Journal, 2019, 11, 1-15.	2.0	2
56	Flexible Probabilistic Shaping RoF Signal Transmission With Adjustable ACO. IEEE Access, 2019, 7, 23690-23697.	4.2	4
57	A Transverse Load Sensor With Ultra-Sensitivity Employing Vernier-Effect Improved Parallel-Structured Fiber-Optic Fabry-Perot Interferometer. IEEE Access, 2019, 7, 120297-120303.	4.2	33
58	Enabling Equalization and Soft Decision by k-Means for VCSEL-Based PAM-4 Optical Interconnection. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	2
59	Measurement of refractive index and temperature using balloon-shaped Mach-Zehnder interferometer. Optik, 2019, 188, 115-119.	2.9	13
60	A Novel Multi-Level Constellation Compression Modulation for GFDM-PON. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	6
61	Realization of a highly sensitive mass sensor in a quadratically coupled optomechanical system. Physical Review A, 2019, 99, .	2.5	36
62	Flexible Filter Bank Multi-Carriers PON Based on Two-Dimensional Multiple Probabilistic Shaping Distribution. IEEE Access, 2019, 7, 1793-1799.	4.2	5
63	Ultrasensitive strain sensor based on Vernier- effect improved parallel structured fiber-optic Fabry-Perot interferometer. Optics Express, 2019, 27, 17239.	3.4	114
64	Probabilistic Shaping Design Based on Reduced-Exponentiation Subset Indexing and Honeycomb-Structured Constellation Optimization for 5G Fronthaul Network. IEEE Access, 2019, 7, 141395-141403.	4.2	3
65	A probabilistically shaped star-CAP-16/32 modulation based on constellation design with honeycomb-like decision regions. Optics Express, 2019, 27, 2732.	3.4	41
66	Highly sensitive mass detection based on nonlinear sum-sideband in a dispersive optomechanical system. Optics Express, 2019, 27, 3909.	3.4	13
67	100 Gbit/s VSB-PAM-n IM/DD transmission system based on 10 GHz DML with optical filtering and joint nonlinear equalization. Optics Express, 2019, 27, 6098.	3.4	32
68	K-means assisted soft decision of PAM4 to mitigate level nonlinearity and level-dependent noise for VCSEL-based 100-Gbps 100-m MMF optical interconnection. , 2019, , .		5
69	Quadrature squeezing of a higher-order sideband spectrum in cavity optomechanics. Optics Letters, 2018, 43, 9.	3.3	43
70	A robust probabilistic shaping PON based on symbol-level labeling and rhombus-shaped modulation. Optics Express, 2018, 26, 26576.	3.4	34
71	Piecewise Chaotic Permutation Method for Physical Layer Security in OFDM-PON. IEEE Photonics Technology Letters, 2016, 28, 2359-2362.	2.5	29
72	Low complexity MIMO method based on matrix transformation for few-mode multi-core optical transmission system. Optics Communications, 2016, 371, 238-242.	2.1	6

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73	Joint robustness security in optical OFDM access system with Turbo-coded subcarrier rotation. Optics Express, 2015, 23, 13.	3.4	46
74	Secure coherent optical multi-carrier system with four-dimensional modulation space and Stokes vector scrambling. Optics Letters, 2015, 40, 2858.	3.3	23
75	Secure optical generalized filter bank multi-carrier system based on cubic constellation masked method. Optics Letters, 2015, 40, 2711.	3.3	25
76	10 Å– 704-Gb/s dynamic FBMB/CAP PON based on remote energy supply. Optics Express, 2014, 22, 26985.	3.4	9
77	Theory and Performance Analyses in Secure CO-OFDM Transmission System Based on Two-Dimensional Permutation. Journal of Lightwave Technology, 2013, 31, 74-80.	4.6	44
78	A novel 3D constellation-masked method for physical security in hierarchical OFDMA system. Optics Express, 2013, 21, 15627.	3.4	25
79	Physical-enhanced secure strategy in an OFDM-PON. Optics Express, 2012, 20, 2255.	3.4	37
80	Constellation-masked secure communication technique for OFDM-PON. Optics Express, 2012, 20, 25161.	3.4	36
81	Physical Secure Enhancement in Optical OFDMA-PON Based on Two-dimensional Scrambling. , 2012, , .		2
82	Secure OFDM-PON Based on Chaos Scrambling. IEEE Photonics Technology Letters, 2011, 23, 998-1000.	2.5	74