

Shaopeng Liu

List of Publications by Year in descending order

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361413

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docs citations

82
times ranked

751
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive strain sensor based on Vernier-effect improved parallel structured fiber-optic Fabry-Perot interferometer. Optics Express, 2019, 27, 17239.	3.4	114
2	Secure OFDM-PON Based on Chaos Scrambling. IEEE Photonics Technology Letters, 2011, 23, 998-1000.	2.5	74
3	Joint robustness security in optical OFDM access system with Turbo-coded subcarrier rotation. Optics Express, 2015, 23, 13.	3.4	46
4	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
5	Quadrature squeezing of a higher-order sideband spectrum in cavity optomechanics. Optics Letters, 2018, 43, 9.	3.3	43
6	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
7	Chaotic constant composition distribution matching for physical layer security in a PS-OFDM-PON. Optics Express, 2020, 28, 39266.	3.4	41
8	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
9	Physical-enhanced secure strategy in an OFDM-PON. Optics Express, 2012, 20, 2255.	3.4	37
10	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
11	Constellation-masked secure communication technique for OFDM-PON. Optics Express, 2012, 20, 25161.	3.4	36
12	Realization of a highly sensitive mass sensor in a quadratically coupled optomechanical system. Physical Review A, 2019, 99, .	2.5	36
13	A robust probabilistic shaping PON based on symbol-level labeling and rhombus-shaped modulation. Optics Express, 2018, 26, 26576.	3.4	34
14	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
15	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
16	Piecewise Chaotic Permutation Method for Physical Layer Security in OFDM-PON. IEEE Photonics Technology Letters, 2016, 28, 2359-2362.	2.5	29
17	A novel 3D constellation-masked method for physical security in hierarchical OFDMA system. Optics Express, 2013, 21, 15627.	3.4	25
18	Secure optical generalized filter bank multi-carrier system based on cubic constellation masked method. Optics Letters, 2015, 40, 2711.	3.3	25

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19	Secure coherent optical multi-carrier system with four-dimensional modulation space and Stokes vector scrambling. <i>Optics Letters</i> , 2015, 40, 2858.	3.3	23
20	A novel fiber in-line Michelson interferometer based on end face packaging for temperature and refractive index measurement. <i>Optik</i> , 2019, 194, 163094.	2.9	20
21	Three-Dimensional Probabilistically Shaped CAP Modulation Based on Constellation Design Using Regular Tetrahedron Cells. <i>Journal of Lightwave Technology</i> , 2020, 38, 1728-1734.	4.6	20
22	Enhancing the Reliability and Security of OFDM-PON Using Modified Lorenz Chaos Based on the Linear Properties of FFT. <i>Journal of Lightwave Technology</i> , 2021, 39, 4294-4299.	4.6	20
23	5D data iteration in a multi-wavelength OFDM-PON using the hyperchaotic system. <i>Optics Letters</i> , 2020, 45, 4960.	3.3	20
24	High-Security Physical Layer in CAP-PON System Based on Floating Probability Disturbance. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 367-370.	2.5	17
25	Intelligent 2-Dimensional Soft Decision Enabled by K-Means Clustering for VCSEL-Based 112-Gbps PAM-4 and PAM-8 Optical Interconnection. <i>Journal of Lightwave Technology</i> , 2019, 37, 6133-6146.	4.6	16
26	A 7D Cellular Neural Network Based OQAM-FBMC Encryption Scheme for Seven Core Fiber. <i>Journal of Lightwave Technology</i> , 2021, 39, 7191-7198.	4.6	16
27	Physical layer data encryption using two-level constellation masking in 3D-CAP-PON. <i>Chinese Optics Letters</i> , 2021, 19, 010601.	2.9	15
28	Secure OFDM-PON using three-dimensional selective probabilistic shaping and chaos. <i>Optics Express</i> , 2022, 30, 25339.	3.4	15
29	Measurement of refractive index and temperature using balloon-shaped Mach-Zehnder interferometer. <i>Optik</i> , 2019, 188, 115-119.	2.9	13
30	Three-parameter measurement optical fiber sensor based on a hybrid structure. <i>Applied Optics</i> , 2020, 59, 8190.	1.8	13
31	Highly sensitive mass detection based on nonlinear sum-sideband in a dispersive optomechanical system. <i>Optics Express</i> , 2019, 27, 3909.	3.4	13
32	Security-Enhanced 3D-CAP-PON Based on Two-Stage Spherical Constellation Masking. <i>IEEE Access</i> , 2020, 8, 111966-111973.	4.2	12
33	Transfer learning assisted convolutional neural networks for modulation format recognition in few-mode fibers. <i>Optics Express</i> , 2021, 29, 36953.	3.4	12
34	Security-enhanced OFDM-PON with two-level coordinated encryption strategy at the bit-level and symbol-level. <i>Optics Express</i> , 2020, 28, 35061.	3.4	11
35	PAPR-Degraded Secure OFDM-WDM-PON Based on Chaotic Set-Partitioned SLM. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 1387-1390.	2.5	10
36	10 Å— 704-Gb/s dynamic FBMB/CAP PON based on remote energy supply. <i>Optics Express</i> , 2014, 22, 26985.	3.4	9

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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	Plasmonic nanocavity for obtaining bound state in the continuum in silicon waveguides. Optics Express, 2021, 29, 9312.	3.4	9
39	Enhanced 3D-CAP modulation with information-inserted time slots for seven-core fiber transmissions. Optics Express, 2020, 28, 24991.	3.4	9
40	Highly Secure and Reliable 7-Core Fiber Optical OFDM Access System Based on Chaos Encryption Inside Polar Code. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	9
41	Improved optical fiber Mach-Zehnder high-sensitivity refractive index sensor. Optik, 2021, 229, 166214.	2.9	8
42	Chaotic Power Division Multiplexing for Secure Optical Multiple Access. Journal of Lightwave Technology, 2022, 40, 968-978.	4.6	8
43	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
44	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
45	High-security OCDM-PON system of 7-core fiber based on CFCM encryption. Optics Letters, 2022, 47, 186.	3.3	7
46	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
47	A Novel Multi-Level Constellation Compression Modulation for GFDM-PON. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	6
48	High-speed Stokes vector receiver enabled by a spin-dependent optical grating. Photonics Research, 2021, 9, 1470.	7.0	6
49	High security OFDM-PON based on an iterative cascading chaotic model and 4-D joint encryption. Optics Communications, 2021, 495, 127055.	2.1	6
50	Secure OFDM transmission scheme based on chaotic encryption and noise-masking key distribution. Optics Letters, 2022, 47, 2903.	3.3	6
51	Flexible Filter Bank Multi-Carriers PON Based on Two-Dimensional Multiple Probabilistic Shaping Distribution. IEEE Access, 2019, 7, 1793-1799.	4.2	5
52	High-Security Multi-Slot Chaos Encryption With Dynamic Probability for 16-CAP PON. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	5
53	Flexible Probabilistic Shaping PON Based on Ladder-Type Probability Model. IEEE Access, 2020, 8, 34170-34176.	4.2	5
54	FBMC/OQAM Security Strategy Based on Diversity DNA Encryption. IEEE Photonics Journal, 2021, 13, 1-11.	2.0	5

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55	Enhanced refractive index and temperature sensor based on balloon-shaped Mach-Zehnder interferometer. <i>Optical Fiber Technology</i> , 2021, 65, 102615.	2.7	5
56	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
57	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
58	Chaotic physical security strategy based on manifold learning-assisted GANs for SDMâ€œOFDMâ€œPONs. <i>Optics Letters</i> , 2022, 47, 1834.	3.3	5
59	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
60	Flexible Probabilistic Shaping RoF Signal Transmission With Adjustable ACO. <i>IEEE Access</i> , 2019, 7, 23690-23697.	4.2	4
61	Gain-type optomechanically induced absorption and precise mass sensor in a hybrid optomechanical system. <i>Journal of Applied Physics</i> , 2021, 129, 084504.	2.5	4
62	Three-dimensional constellation diagram with a hierarchical level design for multi-core transmission. <i>Optics Express</i> , 2022, 30, 2877.	3.4	4
63	Secure SDMâ€œOFDM signal transmission based on memristive neural network. <i>Optics Communications</i> , 2022, 515, 128030.	2.1	4
64	A Probabilistically Shaped CAP Modulation Method Employing Multiple Subsets Mapping With Symbol Classification for a Short Reach Communication. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	2.0	3
65	Probabilistic Shaping Design Based on Reduced-Exponentiation Subset Indexing and Honeycomb-Structured Constellation Optimization for 5G Fronthaul Network. <i>IEEE Access</i> , 2019, 7, 141395-141403.	4.2	3
66	Enhanced Three-Core Three-Mode Optical Transmission System Based on Probabilistic Shaping With Low Complexity MIMO Equalization Algorithm. <i>IEEE Access</i> , 2020, 8, 106136-106146.	4.2	3
67	Spin separation based on-chip optical polarimeter via inverse design. <i>Nanophotonics</i> , 2022, 11, 813-819.	6.0	3
68	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
69	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
70	Physical Secure Enhancement in Optical OFDMA-PON Based on Two-dimensional Scrambling. , 2012, , .		2
71	Assessment of Adaptive Polling Contention Resolution for Optical Switching in Edge Data Center Networking. <i>IEEE Photonics Journal</i> , 2019, 11, 1-15.	2.0	2
72	Enabling Equalization and Soft Decision by k-Means for VCSEL-Based PAM-4 Optical Interconnection. <i>IEEE Photonics Journal</i> , 2019, 11, 1-11.	2.0	2

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73	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
74	Fiber sensor based on <scp>Fabryâ€Perot</scp>/<scp>Machâ€Zehnder</scp> hybrid interferometer for transverse load and temperature. Microwave and Optical Technology Letters, 2021, 63, 679-684.	1.4	2
75	Photonic-Plasmonic Hybrid Nanocavity for Quasi-Bound States in the Continuum at Telecom Wavelengths. IEEE Photonics Technology Letters, 2022, 34, 379-382.	2.5	2
76	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
77	Compact Optical Fiber Sensor Based on Silica Capillary Tube for Simultaneous High Temperature and Transverse Load Measurement. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	1
78	High-Sensitivity Liquid Level Sensor Based on the Balloon-Shaped Fiber Optic MZI. IEEE Photonics Journal, 2022, 14, 1-7.	2.0	1
79	Secure OCDM Mode Division Multiplexed Short-Reach Optical Communication Based on Time-Frequency Joint Perturbation. Journal of Lightwave Technology, 2022, 40, 4599-4606.	4.6	1
80	Intelligent dynamic data perturbation OCDM encryption scheme based on cellular neural network and biological genetic encoding. Optics Express, 2022, 30, 22931.	3.4	1
81	Valley-Dependent Topological Photonic Crystals With Heterogeneous Bearded Interfaces for SOI-Based Integrated Optical Devices. Journal of Lightwave Technology, 2022, 40, 3864-3871.	4.6	0
82	Simultaneous measurement for amplitude and frequency of time-harmonic force based on optomechanically induced nonlinearity. Journal of Applied Physics, 2022, 131, 104401.	2.5	0