

Mu Xu

List of Publications by Year in descending order

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66
papers

1,062
citations

394421

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477307

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docs citations

66
times ranked

816
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient Full-Duplex Coherent Optical System Enabled by Combined Use of Optical Injection Locking and Frequency Comb. <i>Journal of Lightwave Technology</i> , 2021, 39, 1271-1277.	4.6	8
2	Quantum Dot Coherent Comb Laser Source for Converged Optical-Wireless Access Networks. <i>IEEE Photonics Journal</i> , 2021, 13, 1-9.	2.0	2
3	Portfolio Theory in Millimeter-Wave Coordinated Multi-Point Transmission. , 2021, , .		0
4	Efficient preamble design and digital signal processing in upstream burst-mode detection of 100G TDM coherent-PON. <i>Journal of Optical Communications and Networking</i> , 2021, 13, A135.	4.8	45
5	Optical Networking for 5G and Fiber-Wireless Convergence. <i>Springer Handbooks</i> , 2020, , 1031-1056.	0.6	1
6	Statistical Data Compression and Differential Coding for Digital Radio-Over-Fiber-Based Mobile Fronthaul. <i>Journal of Optical Communications and Networking</i> , 2019, 11, A60.	4.8	19
7	Proactive real-time interference avoidance in a 5G millimeter-wave over fiber mobile fronthaul using SARSA reinforcement learning. <i>Optics Letters</i> , 2019, 44, 4347.	3.3	10
8	Extreme Mobile Broadband Tier-II Fronthaul Network Enabled by a New DNN Machine Learning Framework. , 2018, , .		1
9	Broadband IF-Over-Fiber Transmission Based on a Polarization Modulator. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 2087-2090.	2.5	4
10	An Ultra-Reliable MMW/FSO A-RoF System Based on Coordinated Mapping and Combining Technique for 5G and Beyond Mobile Fronthaul. <i>Journal of Lightwave Technology</i> , 2018, 36, 4952-4959.	4.6	48
11	A Long-Distance Millimeter-Wave RoF System With a Low-Cost Directly Modulated Laser. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1396-1399.	2.5	17
12	A PDM based Spectral Aggregation and Cell Densification for 5G Point-to-Multipoint Mobile Fronthaul with a Polarization-tracking-free RAU Design. , 2018, , .		3
13	Enhanced Multi-Level Signal Recovery in Mobile Fronthaul Network Using DNN Decoder. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1511-1514.	2.5	20
14	A Novel ANN Equalizer to Mitigate Nonlinear Interference in Analog-RoF Mobile Fronthaul. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1675-1678.	2.5	27
15	Integration of Multivariate Gaussian Mixture Model for Enhanced PAM-4 Decoding Employing Basis Expansion. , 2018, , .		13
16	Real-Time Demonstration of Adaptive Functional Split in 5G Flexible Mobile Fronthaul Networks. , 2018, , .		23
17	Efficient Mobile Fronthaul Using Windowed OFDM Exhibiting High CFO Tolerance and Strong OOB-leakage Suppression with Low DSP Complexity. , 2018, , .		2
18	A Novel Data-Compression Technology for Digital Mobile Fronthaul with Lloyd Algorithm and Differential Coding. , 2018, , .		19

#	ARTICLE	IF	CITATIONS
19	Demonstration of Inter-Dimensional Adaptive Diversity Combining and Repetition Coding in Converged MMW/FSO Links for 5G and beyond Mobile Fronthaul. , 2018, , .		5
20	4Å–100G PAM-4 Transmission in Faster-than-Nyquist Systems Incorporating Eigenvalue-Space Precoding. , 2018, , .		1
21	Spectrum-efficient 50-Gbps Long-Range Optical Access over 85-km SSMF via DML Using Windowed OFDM Supporting Quasi-Gapless Asynchronous Multiband Transmission. , 2018, , .		2
22	Enabling technologies for millimeter-wave radio-over-fiber systems in next generation heterogeneous mobile access networks. , 2017, , .		2
23	Digital Mobile Fronthaul Based on Deltaâ€“Sigma Modulation for 32 LTE Carrier Aggregation and FBMC Signals. Journal of Optical Communications and Networking, 2017, 9, A233.	4.8	55
24	Efficient Mobile Fronthaul Incorporating VLC Links for Coordinated Densified Cells. IEEE Photonics Technology Letters, 2017, 29, 1059-1062.	2.5	6
25	A Multilevel Artificial Neural Network Nonlinear Equalizer for Millimeter-Wave Mobile Fronthaul Systems. Journal of Lightwave Technology, 2017, 35, 4406-4417.	4.6	53
26	Key Technologies for Next-Generation Digital RoF Mobile Fronthaul With Statistical Data Compression and Multiband Modulation. Journal of Lightwave Technology, 2017, 35, 3671-3679.	4.6	66
27	Millimeter-Wave Carrier Embedded Dual-Color Laser Diode for 5G MMW oF Link. Journal of Lightwave Technology, 2017, 35, 2409-2420.	4.6	28
28	Adaptive Digitization and Variable Channel Coding for Enhancement of Compressed Digital Mobile Fronthaul in PAM-4 Optical Links. Journal of Lightwave Technology, 2017, 35, 4714-4720.	4.6	17
29	Fiber-wireless convergence for next generation heterogeneous mobile data communications. , 2017, , .		2
30	Orthogonal and Sparse Chirp Division Multiplexing for MMW Fiber-Wireless Integrated Systems. IEEE Photonics Technology Letters, 2017, 29, 1316-1319.	2.5	11
31	Power-Division Non-Orthogonal Multiple Access (NOMA) in Flexible Optical Access With Synchronized Downlink/Asynchronous Uplink. Journal of Lightwave Technology, 2017, 35, 4145-4152.	4.6	41
32	Orthogonal Multiband CAP Modulation Based on Offset-QAM and Advanced Filter Design in Spectral Efficient MMW RoF Systems. Journal of Lightwave Technology, 2017, 35, 997-1005.	4.6	27
33	Full-Duplex Quasi-Gapless Carrier Aggregation Using FBMC in Centralized Radio-Over-Fiber Heterogeneous Networks. Journal of Lightwave Technology, 2017, 35, 989-996.	4.6	43
34	Sub-Band Pre-Distortion for PAPR Reduction in Spectral Efficient 5G Mobile Fronthaul. IEEE Photonics Technology Letters, 2017, 29, 122-125.	2.5	22
35	High-Capacity Tier-II Fronthaul Network with SSB-DD Multiband OQAM/QAM-CAP. , 2017, , .		4
36	Millimeter-Wave Radio Bundling for Reliable Transmission in Multi-Section Fiber-Wireless Mobile Fronthaul. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
37	A Multi-level Artificial Neural Network for Intra-band Nonlinear Compensations in Fiber-wireless Systems. , 2017, , .		0
38	Flex-Frame Timing-Critical Passive Optical Networks for Delay Sensitive Mobile and Fixed Access Services. , 2017, , .		4
39	Fast Statistical Estimation in Highly Compressed Digital RoF Systems for Efficient 5G Wireless Signal Delivery. , 2017, , .		11
40	Orthogonal Chirp Division Multiplexing in Millimeter-Wave Fiber-Wireless Integrated Systems for Enhanced Mobile Broadband and Ultra-Reliable Communications. , 2017, , .		8
41	Efficient Mobile Fronthaul Serving Massive MIMO New Radio Services Using Single-IF with Sample-Wise TDM for Reduced RRH Complexity and Ultra-Low Latency. , 2017, , .		1
42	Fiber-€"wireless integrated mobile backhaul network based on a hybrid millimeter-wave and free-space-optics architecture with an adaptive diversity combining technique. Optics Letters, 2016, 41, 1909.	3.3	46
43	Memory-Polynomial Digital Pre-distortion for Linearity Improvement of Directly-Modulated Multi-IF-over-Fiber LTE Mobile Fronthaul. , 2016, , .		26
44	Bidirectional Fiber-Wireless Access Technology for 5G Mobile Spectral Aggregation and Cell Densification. Journal of Optical Communications and Networking, 2016, 8, B104.	4.8	38
45	Nonlinear Inter-Band Subcarrier Intermodulations of Multi-RAT OFDM Wireless Services in 5G Heterogeneous Mobile Fronthaul Networks. Journal of Lightwave Technology, 2016, 34, 4089-4103.	4.6	39
46	Non-Orthogonal Multiple Access With Successive Interference Cancellation in Millimeter-Wave Radio-Over-Fiber Systems. Journal of Lightwave Technology, 2016, 34, 4179-4186.	4.6	30
47	FBMC in Next-Generation Mobile Fronthaul Networks With Centralized Pre-Equalization. IEEE Photonics Technology Letters, 2016, 28, 1912-1915.	2.5	24
48	Polarization-Insensitive Remote Access Unit for Radio-Over-Fiber Mobile Fronthaul System by Reusing Polarization Orthogonal Light Waves. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	8
49	Coordinated Multipoint Transmissions in Millimeter-Wave Radio-Over-Fiber Systems. Journal of Lightwave Technology, 2016, 34, 653-660.	4.6	33
50	Full-duplex Asynchronous Quasi-Gapless Carrier-Aggregation using Filter-bank Multi-carrier in MMW Radio-over-Fiber Heterogeneous Mobile Access Networks. , 2016, , .		11
51	Investigation of FBMC in Mobile Fronthaul Networks for 5G Wireless with Time-Frequency Modulation Adaptation. , 2016, , .		18
52	Cost-Effective Bi-Directional Mobile Fronthaul Employing WRC-FPLD for beyond LTE-Advanced Services. , 2016, , .		9
53	Multiband OQAM CAP Modulation in MMW RoF Systems with Enhanced Spectral and Computational Efficiency. , 2016, , .		2
54	Carrier aggregation for MMW inter-RAT and intra-RAT in next generation heterogeneous mobile data network based on optical domain band mapping. , 2015, , .		10

#	ARTICLE	IF	CITATIONS
55	Wavelength Sharing and Reuse in Dual-Band WDM-PON Systems Employing WRC-FPLDs. IEEE Photonics Technology Letters, 2015, 27, 1821-1824.	2.5	6
56	Multiservice Wireless Transport Over RoF Link With Colorless BS Using PolM-to-IM Converter. IEEE Photonics Technology Letters, 2015, 27, 403-406.	2.5	12
57	Multi-service RoF links with colorless upstream transmission based on orthogonal phase-correlated modulation. Optics Express, 2015, 23, 18323.	3.4	15
58	Generalized Frequency Division Multiplexing for Photonic-Assisted Millimeter-Wave Carrier Aggregation. , 2015, , .		2
59	Flexible compensation of dispersion-induced power fading for multi-service RoF links based on a phase-coherent orthogonal lightwave generator. Optics Letters, 2015, 40, 2103.	3.3	21
60	Non-overlapping downlink and uplink wavelength reuse in WDM-PON employing microwave photonic techniques. , 2014, , .		2
61	Integrated fiber-wireless access architecture for mobile backhaul and fronthaul in 5G wireless data networks. , 2014, , .		9
62	A dual-polarization coherent communication system with simplified optical receiver for UDWDM-PON architecture. Optics Express, 2014, 22, 31735.	3.4	4
63	Characterization and mitigation of nonlinear intermodulations in multichannel OFDM radio-over-fiber systems. , 2014, , .		2
64	Demonstration of 54.8-GHz radio-over-fiber system with wavelength reuse based on distributed intensity conversion. , 2014, , .		0
65	Photonic Precoding for Millimeter-Wave Multicell MIMO in Centralized RoF System. IEEE Photonics Technology Letters, 2014, 26, 1116-1119.	2.5	7
66	Orthogonal Single-Sideband Signal Generation Using Improved Sagnac-Loop-Based Modulator. IEEE Photonics Technology Letters, 2014, 26, 2229-2231.	2.5	14