## Mu Xu

## List of Publications by Year in descending order

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394421 477307 1,062 66 19 29 citations h-index g-index papers 66 66 66 816 docs citations citing authors all docs times ranked

#	Article	IF	Citations
1	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
2	Digital Mobile Fronthaul Based on Delta–Sigma Modulation for 32 LTE Carrier Aggregation and FBMC Signals. Journal of Optical Communications and Networking, 2017, 9, A233.	4.8	55
3	A Multilevel Artificial Neural Network Nonlinear Equalizer for Millimeter-Wave Mobile Fronthaul Systems. Journal of Lightwave Technology, 2017, 35, 4406-4417.	4.6	53
4	An Ultra-Reliable MMW/FSO A-RoF System Based on Coordinated Mapping and Combining Technique for 5G and Beyond Mobile Fronthaul. Journal of Lightwave Technology, 2018, 36, 4952-4959.	4.6	48
5	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
6	Efficient preamble design and digital signal processing in upstream burst-mode detection of 100G TDM coherent-PON. Journal of Optical Communications and Networking, 2021, 13, A135.	4.8	45
7	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
8	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
9	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
10	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
11	Coordinated Multipoint Transmissions in Millimeter-Wave Radio-Over-Fiber Systems. Journal of Lightwave Technology, 2016, 34, 653-660.	4.6	33
12	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
13	Millimeter-Wave Carrier Embedded Dual-Color Laser Diode for 5G MMW oF Link. Journal of Lightwave Technology, 2017, 35, 2409-2420.	4.6	28
14	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
15	A Novel ANN Equalizer to Mitigate Nonlinear Interference in Analog-RoF Mobile Fronthaul. IEEE Photonics Technology Letters, 2018, 30, 1675-1678.	2.5	27
16	Memory-Polynomial Digital Pre-distortion for Linearity Improvement of Directly-Modulated Multi-IF-over-Fiber LTE Mobile Fronthaul. , 2016, , .		26
17	FBMC in Next-Generation Mobile Fronthaul Networks With Centralized Pre-Equalization. IEEE Photonics Technology Letters, 2016, 28, 1912-1915.	2.5	24
18	Real-Time Demonstration of Adaptive Functional Split in 5G Flexible Mobile Fronthaul Networks. , 2018,		23

#	Article	IF	Citations
19	Sub-Band Pre-Distortion for PAPR Reduction in Spectral Efficient 5G Mobile Fronthaul. IEEE Photonics Technology Letters, 2017, 29, 122-125.	2.5	22
20	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
21	Enhanced Multi-Level Signal Recovery in Mobile Fronthaul Network Using DNN Decoder. IEEE Photonics Technology Letters, 2018, 30, 1511-1514.	2.5	20
22	Statistical Data Compression and Differential Coding for Digital Radio-Over-Fiber-Based Mobile Fronthaul. Journal of Optical Communications and Networking, 2019, 11, A60.	4.8	19
23	A Novel Data-Compression Technology for Digital Mobile Fronthaul with Lloyd Algorithm and Differential Coding. , 2018, , .		19
24	Investigation of FBMC in Mobile Fronthaul Networks for 5G Wireless with Time-Frequency Modulation Adaptation. , 2016, , .		18
25	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
26	A Long-Distance Millimeter-Wave RoF System With a Low-Cost Directly Modulated Laser. IEEE Photonics Technology Letters, 2018, 30, 1396-1399.	2.5	17
27	Multi-service RoF links with colorless upstream transmission based on orthogonal phase-correlated modulation. Optics Express, 2015, 23, 18323.	3.4	15
28	Orthogonal Single-Sideband Signal Generation Using Improved Sagnac-Loop-Based Modulator. IEEE Photonics Technology Letters, 2014, 26, 2229-2231.	2.5	14
29	Integration of Multivariate Gaussian Mixture Model for Enhanced PAM-4 Decoding Employing Basis Expansion. , 2018, , .		13
30	Multiservice Wireless Transport Over RoF Link With Colorless BS Using PolM-to-IM Convertor. IEEE Photonics Technology Letters, 2015, 27, 403-406.	2.5	12
31	Orthogonal and Sparse Chirp Division Multiplexing for MMW Fiber-Wireless Integrated Systems. IEEE Photonics Technology Letters, 2017, 29, 1316-1319.	2.5	11
32	Full-duplex Asynchronous Quasi-Gapless Carrier-Aggregation using Filter-bank Multi-carrier in MMW Radio-over-Fiber Heterogeneous Mobile Access Networks. , 2016, , .		11
33	Fast Statistical Estimation in Highly Compressed Digital RoF Systems for Efficient 5G Wireless Signal Delivery. , 2017, , .		11
34	Carrier aggregation for MMW inter-RAT and intra-RAT in next generation heterogeneous mobile data network based on optical domain band mapping. , $2015$ , , .		10
35	Proactive real-time interference avoidance in a 5G millimeter-wave over fiber mobile fronthaul using SARSA reinforcement learning. Optics Letters, 2019, 44, 4347.	3.3	10
36	Integrated fiber-wireless access architecture for mobile backhaul and fronthaul in 5G wireless data networks. , 2014, , .		9

#	Article	IF	CITATIONS
37	Cost-Effective Bi-Directional Mobile Fronthaul Employing WRC-FPLD for beyond LTE-Advanced Services. , 2016, , .		9
38	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
39	Highly Efficient Full-Duplex Coherent Optical System Enabled by Combined Use of Optical Injection Locking and Frequency Comb. Journal of Lightwave Technology, 2021, 39, 1271-1277.	4.6	8
40	Orthogonal Chirp Division Multiplexing in Millimeter-Wave Fiber-Wireless Integrated Systems for Enhanced Mobile Broadband and Ultra-Reliable Communications., 2017,,.		8
41	Photonic Precoding for Millimeter-Wave Multicell MIMO in Centralized RoF System. IEEE Photonics Technology Letters, 2014, 26, 1116-1119.	2.5	7
42	Wavelength Sharing and Reuse in Dual-Band WDM-PON Systems Employing WRC-FPLDs. IEEE Photonics Technology Letters, 2015, 27, 1821-1824.	2.5	6
43	Efficient Mobile Fronthaul Incorporating VLC Links for Coordinated Densified Cells. IEEE Photonics Technology Letters, 2017, 29, 1059-1062.	2.5	6
44	Demonstration of Inter-Dimensional Adaptive Diversity Combining and Repetition Coding in Converged MMW/FSO Links for 5G and beyond Mobile Fronthaul. , 2018, , .		5
45	A dual-polarization coherent communication system with simplified optical receiver for UDWDM-PON architecture. Optics Express, 2014, 22, 31735.	3.4	4
46	High-Capacity Tier-II Fronthaul Network with SSB-DD Multiband OQAM/QAM-CAP., 2017,,.		4
47	Broadband IF-Over-Fiber Transmission Based on a Polarization Modulator. IEEE Photonics Technology Letters, 2018, 30, 2087-2090.	2.5	4
48	Flex-Frame Timing-Critical Passive Optical Networks for Delay Sensitive Mobile and Fixed Access Services., 2017,,.		4
49	Millimeter-Wave Radio Bundling for Reliable Transmission in Multi-Section Fiber-Wireless Mobile Fronthaul. , 2017, , .		3
50	A PDM based Spectral Aggregation and Cell Densification for 5G Point-to-Multipoint Mobile Fronthaul with a Polarization-tracking-free RAU Design. , 2018, , .		3
51	Non-overlapping downlink and uplink wavelength reuse in WDM-PON employing microwave photonic techniques., 2014,,.		2
52	Characterization and mitigation of nonlinear intermodulations in multichannel OFDM radio-over-fiber systems. , 2014, , .		2
53	Generalized Frequency Division Multiplexing for Photonic-Assisted Millimeter-Wave Carrier Aggregation. , 2015, , .		2
54	Enabling technologies for millimeter-wave radio-over-fiber systems in next generation heterogeneous mobile access networks. , 2017, , .		2

#	Article	IF	CITATIONS
55	Fiber-wireless convergence for next generation heterogeneous mobile data communications., 2017,,.		2
56	Quantum Dot Coherent Comb Laser Source for Converged Optical-Wireless Access Networks. IEEE Photonics Journal, 2021, 13, 1-9.	2.0	2
57	Efficient Mobile Fronthaul Using Windowed OFDM Exhibiting High CFO Tolerance and Strong OOB-leakage Suppression with Low DSP Complexity. , 2018, , .		2
58	Multiband OQAM CAP Modulation in MMW RoF Systems with Enhanced Spectral and Computational Efficiency. , 2016, , .		2
59	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
60	Extreme Mobile Broadband Tier-II Fronthaul Network Enabled by a New DNN Machine Learning Framework. , $2018,  ,  .$		1
61	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
62	$4\tilde{A}-100$ PAM-4 Transmission in Faster-than-Nyquist Systems Incorporating Eigenvalue-Space Precoding. , 2018, , .		1
63	Optical Networking for 5G and Fiber-Wireless Convergence. Springer Handbooks, 2020, , 1031-1056.	0.6	1
64	Demonstration of 54.8-GHz radio-over-fiber system with wavelength reuse based on distributed intensity conversion. , 2014, , .		0
65	Portfolio Theory in Millimeter-Wave Coordinated Multi-Point Transmission., 2021, , .		0
66	A Multi-level Artificial Neural Network for Intra-band Nonlinear Compensations in Fiber-wireless Systems., 2017,,.		0