

Cheng Liu

List of Publications by Year in descending order

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49
papers

947
citations

840776

11
h-index

794594

19
g-index

50
all docs

50
docs citations

50
times ranked

833
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Characterization and mitigation of nonlinear intermodulations in multichannel OFDM radio-over-fiber systems. , 2014, , .		2
3	Investigation of Data-Dependent Channel Cross-Modulation in Multiband Radio-Over-Fiber Systems. Journal of Lightwave Technology, 2014, 32, 1861-1871.	4.6	26
4	Key Microwave-Photonics Technologies for Next-Generation Cloud-Based Radio Access Networks. Journal of Lightwave Technology, 2014, 32, 3452-3460.	4.6	96
5	Investigation of intra/inter-band cross-modulation in multiband radio-over-fiber systems. , 2013, , .		8
6	A Novel Multi-Service Small-Cell Cloud Radio Access Network for Mobile Backhaul and Computing Based on Radio-Over-Fiber Technologies. Journal of Lightwave Technology, 2013, 31, 2869-2875.	4.6	155
7	Real-time dual-band wireless videos in millimeter-wave radio-over-fiber system. Optical Fiber Technology, 2013, 19, 529-532.	2.7	4
8	Architecture and applications of a versatile small-cell, multi-service cloud radio access network using radio-over-fiber technologies. , 2013, , .		16
9	1–100GHz microwave photonics link technologies for next-generation WiFi and 5G wireless communications. , 2013, , .		12
10	Heterodyne Optical Carrier Suppression for Millimeter-Wave-over-Fiber Systems. Journal of Lightwave Technology, 2013, 31, 3210-3216.	4.6	21
11	The case for re-configurable backhaul in cloud-RAN based small cell networks. , 2013, , .		78
12	Centralized small-cell radio access network with shared millimeter-wave radio-over-fiber resources. , 2013, , .		0
13	Multi-band QPSK signal transmission implemented with remote up-conversion and Schottky RF detectors in a 60-GHz millimeter wave radio-over-fiber system. Optical Fiber Technology, 2013, 19, 285-288.	2.7	2
14	Radio-Over-Fiber Access Architecture for Integrated Broadband Wireless Services. Journal of Lightwave Technology, 2013, 31, 3614-3620.	4.6	91
15	Closed-form analysis of intra/inter-band cross-modulation in multiband radio-over-fiber systems. , 2013, , .		4
16	Enhanced Multicast Performance for a 60-GHz Gigabit Wireless Service over Optical Access Network Based on 16-QAM-OFDM Hierarchical Modulation. , 2013, , .		6
17	Generation and transmission of multiband and multi-gigabit 60-GHz MMW signals in an RoF system with frequency quintupling technique. Optics Express, 2013, 21, 9899.	3.4	31
18	Joint digital signal processing for superchannel coherent optical communication systems. Optics Express, 2013, 21, 8342.	3.4	36

#	ARTICLE	IF	CITATIONS
19	Real-time WiFi and gigabit data transmission in multiband 60-GHz radio-over-fiber system for band-mapped broadband wireless services. , 2013, , .		2
20	Joint ICI Cancellation for Superchannel Coherent Optical Systems in Nonlinear Transmission Regimes. , 2013, , .		5
21	Investigation of Intra/Inter-Band Cross-Modulation in Multi-Band Radio-over-Fiber Systems. , 2013, , .		5
22	A Novel In-Building Small-Cell Backhaul Architecture for Cost-Efficient Multi-Operator Multi-Service Coexistence. , 2013, , .		12
23	High Speed MIMO-OFDM Wireless Data Transport in 60-GHz Radio-over-Fiber System Multiplexed by Optical TDM. , 2013, , .		3
24	Fractionally-Spaced Frequency Domain Linear Crosstalk Cancellation with Spectral Alignment Techniques for Coherent Superchannel Optical Systems. , 2013, , .		4
25	A Novel Direct-Modulation Envelope-Detection Pol-Mux MIMO RoF System based on Blind Equalization Techniques. , 2013, , .		1
26	Demonstration of 4-Band Millimeter-wave Radio-Over-Fiber System for Multi-service Wireless Access Networks. , 2013, , .		10
27	A Novel Full-Duplex Testbed Demonstration of Converged All-Band 60-GHz Radio-Over-Fiber Access Architecture. , 2012, , .		14
28	A Carrier-Ethernet oriented transport protocol with a novel congestion control and QoS integration: Analytical, simulated and experimental validation. , 2012, , .		3
29	Performance of 32-Cbaud PDM-QPSK in nonlinear transport regimes with different phase recovery methods. Proceedings of SPIE, 2012, , .	0.8	2
30	Digital pre-compensation of inter-channel crosstalk for superchannel systems. , 2012, , .		0
31	Millimeter-wave, multi-access wireless over fiber technologies and applications. , 2012, , .		2
32	Duobinary RF envelope detection in coherent optical millimeter-wave systems. , 2012, , .		0
33	Passband Narrowing and Crosstalk Impairments in ROADM-Enabled 100G DWDM Networks. Journal of Lightwave Technology, 2012, 30, 3980-3986.	4.6	29
34	Enhanced Vector Signal Transmission Over Double-Sideband Carrier-Suppressed Optical Millimeter-Waves Through a Small LO Feedthrough. IEEE Photonics Technology Letters, 2012, 24, 173-175.	2.5	11
35	Emerging technologies for mm-wave RoF communication. , 2012, , .		3
36	Delivery of wireless and wired services using a single-drive Mach-Zehnder modulator for bidirectional radio-over-fiber systems. , 2012, , .		0

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37	Super receiver design for superchannel coherent optical systems. Proceedings of SPIE, 2012, , .	0.8	10
38	Inter-Channel Crosstalk Cancellation for Nyquist-WDM Superchannel Applications. Journal of Lightwave Technology, 2012, 30, 3993-3999.	4.6	38
39	Scaling 112 Gb/s Optical Networks With the Nonlinear Threshold Metric. Journal of Lightwave Technology, 2012, 30, 1291-1298.	4.6	4
40	Multi-service, Multi-band, and MIMO Data Distribution over 60-GHz RoF System for Gigabit Wireless Local Area Networks. , 2012, , .		0
41	Optimization of Vector Signal Delivery Over Double-Sideband Carrier-Suppressed Optical Millimeter-Waves Through DC Coupling. IEEE Photonics Technology Letters, 2011, 23, 789-791.	2.5	4
42	Multi-band 16QAM-OFDM Vector Signal Delivery over 60-GHz DSB-SC Optical Millimeter-Wave through LO Enhancement. , 2011, , .		5
43	A Survivable Protection and Restoration Scheme using Wavelength Switching of Integrated Tunable Optical Transmitter for High Throughput WDM-PON System. , 2011, , .		12
44	DQPSK for metro networks. , 2010, , .		0
45	Link Performance Improved 16QAM-OFDM 60-GHz Radio-over-Fiber System Employing Convolutional Codes. , 2010, , .		7
46	Cost-Effective Optical Millimeter Technologies and Field Demonstrations for Very High Throughput Wireless-Over-Fiber Access Systems. Journal of Lightwave Technology, 2010, 28, 2376-2397.	4.6	112
47	A novel radio-over-fiber system using the xy-MIMO wireless technique for enhanced radio spectral efficiency. , 2010, , .		9
48	Experimental Analyses and Optimization of Equalization Techniques for 60-GHz OFDM Radio-over-Fiber System. , 2010, , .		6
49	QPSK-OFDM Radio over Polymer Optical Fiber for Broadband In-building 60GHz Wireless Access. , 2010, , .		5