

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	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
2	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
3	Key Microwave-Photonics Technologies for Next-Generation Cloud-Based Radio Access Networks. Journal of Lightwave Technology, 2014, 32, 3452-3460.	4.6	96
4	Radio-Over-Fiber Access Architecture for Integrated Broadband Wireless Services. Journal of Lightwave Technology, 2013, 31, 3614-3620.	4.6	91
5	The case for re-configurable backhaul in cloud-RAN based small cell networks. , 2013, , .		78
6	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
7	Inter-Channel Crosstalk Cancellation for Nyquist-WDM Superchannel Applications. Journal of Lightwave Technology, 2012, 30, 3993-3999.	4.6	38
8	Joint digital signal processing for superchannel coherent optical communication systems. Optics Express, 2013, 21, 8342.	3.4	36
9	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
10	Passband Narrowing and Crosstalk Impairments in ROADM-Enabled 100G DWDM Networks. Journal of Lightwave Technology, 2012, 30, 3980-3986.	4.6	29
11	Investigation of Data-Dependent Channel Cross-Modulation in Multiband Radio-Over-Fiber Systems. Journal of Lightwave Technology, 2014, 32, 1861-1871.	4.6	26
12	Heterodyne Optical Carrier Suppression for Millimeter-Wave-over-Fiber Systems. Journal of Lightwave Technology, 2013, 31, 3210-3216.	4.6	21
13	Architecture and applications of a versatile small-cell, multi-service cloud radio access network using radio-over-fiber technologies. , 2013, , .		16
14	A Novel Full-Duplex Testbed Demonstration of Converged All-Band 60-GHz Radio-Over-Fiber Access Architecture. , 2012, , .		14
15	1–100GHz microwave photonics link technologies for next-generation WiFi and 5G wireless communications. , 2013, , .		12
16	A Survivable Protection and Restoration Scheme using Wavelength Switching of Integrated Tunable Optical Transmitter for High Throughput WDM-PON System. , 2011, , .		12
17	A Novel In-Building Small-Cell Backhaul Architecture for Cost-Efficient Multi-Operator Multi-Service Coexistence. , 2013, , .		12
18	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

#	ARTICLE	IF	CITATIONS
19	Super receiver design for superchannel coherent optical systems. Proceedings of SPIE, 2012, , .	0.8	10
20	Demonstration of 4-Band Millimeter-wave Radio-Over-Fiber System for Multi-service Wireless Access Networks. , 2013, , .		10
21	A novel radio-over-fiber system using the xy-MIMO wireless technique for enhanced radio spectral efficiency. , 2010, , .		9
22	Investigation of intra/inter-band cross-modulation in multiband radio-over-fiber systems. , 2013, , .		8
23	Link Performance Improved 16QAM-OFDM 60-GHz Radio-over-Fiber System Employing Convolutional Codes. , 2010, , .		7
24	Enhanced Multicast Performance for a 60-GHz Gigabit Wireless Service over Optical Access Network Based on 16-QAM-OFDM Hierarchical Modulation. , 2013, , .		6
25	Experimental Analyses and Optimization of Equalization Techniques for 60-GHz OFDM Radio-over-Fiber System. , 2010, , .		6
26	Joint ICI Cancellation for Superchannel Coherent Optical Systems in Nonlinear Transmission Regimes. , 2013, , .		5
27	Investigation of Intra/Inter-Band Cross-Modulation in Multi-Band Radio-over-Fiber Systems. , 2013, , .		5
28	QPSK-OFDM Radio over Polymer Optical Fiber for Broadband In-building 60GHz Wireless Access. , 2010, , .		5
29	Multi-band 16QAM-OFDM Vector Signal Delivery over 60-GHz DSB-SC Optical Millimeter-Wave through LO Enhancement. , 2011, , .		5
30	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
31	Scaling 112 Gb/s Optical Networks With the Nonlinear Threshold Metric. Journal of Lightwave Technology, 2012, 30, 1291-1298.	4.6	4
32	Real-time dual-band wireless videos in millimeter-wave radio-over-fiber system. Optical Fiber Technology, 2013, 19, 529-532.	2.7	4
33	Closed-form analysis of intra/inter-band cross-modulation in multiband radio-over-fiber systems. , 2013, , .		4
34	Fractionally-Spaced Frequency Domain Linear Crosstalk Cancellation with Spectral Alignment Techniques for Coherent Superchannel Optical Systems. , 2013, , .		4
35	A Carrier-Ethernet oriented transport protocol with a novel congestion control and QoS integration: Analytical, simulated and experimental validation. , 2012, , .		3
36	Emerging technologies for mm-wave RoF communication. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
37	High Speed MIMO-OFDM Wireless Data Transport in 60-GHz Radio-over-Fiber System Multiplexed by Optical TDM. , 2013, , .		3
38	Performance of 32-Gbaud PDM-QPSK in nonlinear transport regimes with different phase recovery methods. Proceedings of SPIE, 2012, , .	0.8	2
39	Millimeter-wave, multi-access wireless over fiber technologies and applications. , 2012, , .		2
40	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
41	Real-time WiFi and gigabit data transmission in multiband 60-GHz radio-over-fiber system for band-mapped broadband wireless services. , 2013, , .		2
42	Characterization and mitigation of nonlinear intermodulations in multichannel OFDM radio-over-fiber systems. , 2014, , .		2
43	A Novel Direct-Modulation Envelope-Detection Pol-Mux MIMO RoF System based on Blind Equalization Techniques. , 2013, , .		1
44	DQPSK for metro networks. , 2010, , .		0
45	Digital pre-compensation of inter-channel crosstalk for superchannel systems. , 2012, , .		0
46	Duobinary RF envelope detection in coherent optical millimeter-wave systems. , 2012, , .		0
47	Delivery of wireless and wired services using a single-drive Mach-Zehnder modulator for bidirectional radio-over-fiber systems. , 2012, , .		0
48	Centralized small-cell radio access network with shared millimeter-wave radio-over-fiber resources. , 2013, , .		0
49	Multi-service, Multi-band, and MIMO Data Distribution over 60-GHz RoF System for Gigabit Wireless Local Area Networks. , 2012, , .		0