Chin-Liang Wang

List of Publications by Year
in descending order

118 papers	1,350 citations	471509 17 h-index	477307 29 g-index
118 all docs	118 docs citations	118 times ranked	864 citing authors

#	Article	IF	Citations
1	Power Allocation for a Downlink Non-Orthogonal Multiple Access System. IEEE Wireless Communications Letters, 2016, 5, 532-535.	5.0	146
2	Systolic array implementation of Euclid's algorithm for inversion and division in GF(2/sup m/). IEEE Transactions on Computers, 1998, 47, 1161-1167.	3.4	72
3	A Reduced-Complexity PTS-Based PAPR Reduction Scheme for OFDM Systems. IEEE Transactions on Wireless Communications, 2010, 9, 2455-2460.	9.2	66
4	Intercarrier interference cancellation using general phase rotated conjugate transmission for OFDM systems. IEEE Transactions on Communications, 2010, 58, 812-819.	7.8	56
5	New systolic arrays for C+AB/sup 2/, inversion, and division in GF(2/sup m/). IEEE Transactions on Computers, 2000, 49, 1120-1125.	3.4	55
6	Efficient VLSI architectures for fast computation of the discrete Fourier transform and its inverse. IEEE Transactions on Signal Processing, 2000, 48, 3206-3216.	5.3	40
7	A Low-Complexity PAPR Estimation Scheme for OFDM Signals and Its Application to SLM-Based PAPR Reduction. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 637-645.	10.8	39
8	A new two-dimensional block adaptive FIR filtering algorithm and its application to image restoration. IEEE Transactions on Image Processing, 1998, 7, 238-246.	9.8	36
9	A parallel decoding scheme for turbo codes. , 0, , .		34
10	An Efficient Relay Selection Protocol for Cooperative Wireless Sensor Networks. , 2009, , .		33
11	CoopGeo: A Beaconless Geographic Cross-Layer Protocol for Cooperative Wireless Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2011, 10, 2554-2565.	9.2	31
12	A Resource Allocation Scheme for Cooperative Multiuser OFDM-Based Cognitive Radio Systems. IEEE Transactions on Communications, 2011, 59, 3204-3215.	7.8	30
13	Optimized Joint Fine Timing Synchronization and Channel Estimation for MIMO Systems. IEEE Transactions on Communications, 2011, 59, 1089-1098.	7.8	27
14	On joint fine time adjustment and channel estimation for OFDM systems. IEEE Transactions on Wireless Communications, 2009, 8, 4940-4944.	9.2	26
15	An Adaptive Receiver Design for OFDM Systems Using Conjugate Transmission. IEEE Transactions on Communications, 2013, 61, 599-608.	7.8	26
16	Lattice-Partition-Based Downlink Non-Orthogonal Multiple Access Without SIC for Slow Fading Channels. IEEE Transactions on Communications, 2019, 67, 1166-1181.	7.8	24
17	On Power Allocation and Relay Selection for a Two-Way Amplify-and-Forward Relaying System. IEEE Transactions on Communications, 2013, 61, 3146-3155.	7.8	23
18	On Gray Labeling for Downlink Non-Orthogonal Multiple Access Without SIC. IEEE Communications Letters, 2016, 20, 1721-1724.	4.1	23

#	ARTICLE	IF	CITATIONS
19	A new narrowband interference suppression scheme for spread-spectrum CDMA communications. IEEE Transactions on Signal Processing, 2001, 49, 2832-2838.	5.3	22
20	A new fast DCT algorithm and its systolic VLSI implementation. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1997, 44, 959-962.	2.2	21
21	A Geographic-Based Approach to Relay Selection for Wireless Ad Hoc Relay Networks. , 2009, , .		20
22	A novel memory-based FFT processor for DMT/OFDM applications. , 1999, , .		19
23	Power Allocation and Relay Selection for AF Cooperative Relay Systems With Imperfect Channel Estimation. IEEE Transactions on Vehicular Technology, 2016, 65, 7809-7813.	6.3	19
24	A new VLSI architecture for full-search vector quantization. IEEE Transactions on Circuits and Systems for Video Technology, 1996, 6, 389-398.	8.3	17
25	Discrete Hartley transform based multicarrier modulation. , 0, , .		17
26	Cooperative Geographic Routing with Radio Coverage Extension for SER-Constrained Wireless Relay Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 271-279.	14.0	17
27	An area-efficient pipelined VLSI architecture for decoding of Reed-Solomon codes based on a time-domain algorithm. IEEE Transactions on Circuits and Systems for Video Technology, 1997, 7, 864-871.	8.3	16
28	A low-complexity iterative multiuser receiver for turbo-coded DS-CDMA systems. IEEE Journal on Selected Areas in Communications, 2001, 19, 1775-1783.	14.0	16
29	An Adaptive Location Estimator Based on Alpha-Beta Filtering for Wireless Sensor Networks. , 2007, , .		14
30	An Adaptive Location Estimator Based on Kalman Filtering for Dynamic Indoor Environments. , 2006, , .		13
31	Low-Complexity Resource Allocation for Downlink Multicarrier NOMA Systems. , 2018, , .		13
32	A novel DHT-based FFT/IFFT processor for ADSL transceivers. , 0, , .		12
33	A Low-Complexity Joint Time Synchronization and Channel Estimation Scheme for Orthogonal Frequency Division Multiplexing Systems. , 2006, , .		12
34	An Efficient Power Allocation Algorithm for Multiuser OFDM-Based Cognitive Radio Systems. , 2010, , .		12
35	A novel digit-serial systolic array for modular multiplication. , 0, , .		11
36	A DHT-based FFT/IFFT processor for VDSL transceivers. , 0, , .		11

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37	An Adaptive Location Estimator Based on Kalman Filtering for Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2007, , .	0.4	11
38	A Compact Preamble Design for Synchronization in Distributed MIMO OFDM Systems. , 2011, , .		11
39	A Cooperative Multihop Transmission Scheme for Two-Way Amplify-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 8569-8574.	6.3	11
40	On finite-precision implementation of a decoder for turbo codes. , 0, , .		11
41	An Optimized Joint Time Synchronization and Channel Estimation Scheme for OFDM Systems. IEEE Vehicular Technology Conference, 2008, , .	0.4	10
42	New Decentralized Positioning Schemes for Wireless Sensor Networks Based on Recursive Least-Squares Optimization. IEEE Wireless Communications Letters, 2014, 3, 78-81.	5.0	10
43	Decentralized Target Tracking Based on a Weighted Extended Kalman Filter for Wireless Sensor Networks. , 2008, , .		9
44	An indoor location scheme based on wireless local area networks. , 0, , .		8
45	Power Allocation for OFDM-Based Cognitive Radio Systems under Primary User Activity. , 2010, , .		8
46	Decentralized target positioning and tracking based on a weighted extended Kalman filter for wireless sensor networks. Wireless Networks, 2013, 19, 1915-1931.	3.0	8
47	A low-complexity power-sum circuit for GF(2/sup m/) and its applications. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2000, 47, 1091-1097.	2.2	7
48	Soft-input soft-output partial parallel interference cancellation for DS-CDMA systems. , 0, , .		7
49	Suboptimal Power Allocation for a Two-Path Successive Relay System with Full Interference Cancellation. , 2012, , .		7
50	A new block adaptive filtering algorithm for decision-feedback equalization of multipath fading channels. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1997, 44, 877-881.	2.2	6
51	Novel digit-serial systolic array implementation of Euclid's algorithm for division in GF(2/sup m/). , 0, , .		6
52	A new side-information free PTS scheme for PAPR reduction in OFDM systems. , 2012, , .		6
53	A New Cooperative Transmission Strategy for Physical-Layer Security with Multiple Eavesdroppers. , 2012, , .		6
54	Proportional-Fairness Resource Allocation for a Downlink Multicarrier NOMA System. , 2020, , .		6

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55	On adaptive decision-feedback equalization of intersymbol interference channels in coded modulation systems. IEEE Transactions on Communications, 1996, 44, 1404-1408.	7.8	5
56	A new systolic squarer and its application to compute exponentiations in GF(2/sup m/). , 0, , .		5
57	An Adaptive Positioning Scheme Based on Radio Propagation Modeling for Indoor WLANs. , 0, , .		5
58	Low-Complexity Joint Timing Synchronization and Channel Estimation for MIMO OFDM Systems. , 2011, , .		5
59	Joint Channel and Doppler Spread Estimation over Time-Varying Flat-Fading Channels. , 2012, , .		5
60	Adaptive Out-of-Band Interference Suppression for Coexistent Wi-Fi and Bluetooth Systems. IEEE Communications Letters, 2017, 21, 2306-2309.	4.1	5
61	Power Allocation Based on SINR Balancing for NOMA Systems with Imperfect Channel Estimation. , 2019, , .		5
62	A high-throughput, flexible VLSI architecture for motion estimation. , 0, , .		4
63	A novel systolic design for fast computation of the discrete Hartley transform. , 0, , .		4
64	Design and implementation of an RSA public-key cryptosystem. , 0, , .		4
65	A Low-Complexity Companding Transform for Peak-To-Average Power Ratio Reduction in OFDM Systems. , 0, , .		4
66	Decentralized Positioning and Tracking Based on a Weighted Incremental Subgradient Algorithm for Wireless Sensor Networks. , 2008, , .		4
67	A Low-Complexity Iterative Power Allocation Scheme for Multiuser OFDM Systems. IEEE Vehicular Technology Conference, 2008, , .	0.4	4
68	A Credibility-Based Cooperative Spectrum Sensing Technique for Cognitive Radio Systems. , 2011, , .		4
69	A digit-serial VLSI architecture for delayed LMS adaptive FIR filtering. , 0, , .		3
70	Improved partial parallel interference cancellation for MC-CDMA uplink systems. , 0, , .		3
71	WLC43-3: A New Joint Time Synchronization and Channel Estimation Scheme for MIMO-OFDM Systems. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	3
72	Decentralized positioning and tracking based on a variable step-size incremental subgradient algorithm for wireless sensor networks. , 2008, , .		3

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73	Intercarrier Interference Cancellation Using General Phase Rotated Conjugate Transmission for OFDM Systems. , 2008, , .		3
74	Variance-reduced partial parallel interference cancellation for MC-CDMA uplink systems. IEEE Transactions on Wireless Communications, 2009, 8, 4951-4956.	9.2	3
75	An Improved Adaptive Receiver for OFDM Systems Using Conjugate Transmission. , 2011, , .		3
76	On the relaying area of contention-based geographic relay selection for cooperative wireless networks. , 2011, , .		3
77	Cooperative Beamforming with Multi-Relay Selection for Wireless Ad Hoc Networks. , 2011, , .		3
78	An asymptotic secrecy rate analysis of a cooperative jamming strategy for physical-layer security. , 2013, , .		3
79	Reduced–complexity tracking scheme based on adaptive weighting for location estimation. IET Communications, 2013, 7, 673-684.	2.2	3
80	Downlink Lattice-Partition-Based Non-Orthogonal Multiple Access without SIC for Slow Fading Channels. , 2018, , .		3
81	Power Allocation for Downlink NOMA Systems with Imperfect Channel Estimation. , 2021, , .		3
82	An area-efficient VLSI architecture for decoding of Reed-Solomon codes. , 0, , .		2
83	Systolic array implementation of Euclid's algorithm for inversion and division in GF(2/sup m/). , 0, , .		2
84	A low-complexity iterative multiuser receiver for turbo-coded DS-CDMA systems. , 0, , .		2
85	A low-complexity selected mapping scheme for peak-to-average power ratio reduction in OFDM systems. , 0, , .		2
86	Design of a New Signal Structure for Active Sensing in Cognitive Radio Systems. , 2012, , .		2
87	Capacity analysis and power allocation under imperfect channel estimation for AF-based cooperative relay systems. , 2012, , .		2
88	Joint relay weighting and power allocation for a two-way amplify-and-forward relay system. , 2013, , .		2
89	A Decentralized Positioning Method Based on Recursive Weighted Least Absolute Value Optimization for Wireless Sensor Networks. IEEE Signal Processing Letters, 2014, 21, 18-21.	3.6	2
90	User Selection and Power Allocation for Detection-Performance Guarantee in Downlink Non-Orthogonal Multiple Access Systems. , 2019, , .		2

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91	Improved Modulation Schemes for Lattice-Partition-Based Downlink Non-Orthogonal Multiple Access Systems. IEEE Wireless Communications Letters, 2020, 9, 2130-2134.	5.0	2
92	A new systolic architecture for fast DCT computation. , 0, , .		1
93	Synchronization techniques for multiple-input multiple-output OFDM systems. , 0, , .		1
94	On the Selection of Partial Cancellation Factors for a Hard-Decision Partial PIC Scheme in DS-CDMA Systems. IEEE Communications Letters, 2007, 11, 668-670.	4.1	1
95	Large CFO Acquisition using Partially Geometric Modulatable Orthogonal Sequences. , 2009, , .		1
96	A Reduced-Complexity Decentralized Positioning and Tracking Algorithm for Wireless Sensor Networks. , 2010, , .		1
97	A synchronization scheme based on Gaussian pulses for cooperative MIMO OFDM systems. , 2012, , .		1
98	Non-data-aided timing synchronization for cooperative MIMO OFDM systems. , 2012, , .		1
99	Efficient ARQ Protocols for a Two-Way Amplify-and-Forward Relaying System. , 2013, , .		1
100	A Partial PIC Based Receiver Design for SFBC-OFDM Cooperative Relay Systems. , 2015, , .		1
101	Filter Bank Multicarrier Transmission Based on the Discrete Hartley Transform. , 2020, , .		1
102	Proportional-Fairness Resource Allocation Based on Statistical Channel State Information for a Downlink Multicarrier NOMA System. , 2021, , .		1
103	A low time-complexity, hardware-efficient bit-parallel power-sum circuit for finite fields GF(2/sup M/). , 0, , .		0
104	Improved adaptive decision-feedback equalization with interleaving for coded modulation systems. , 0, , .		0
105	A linear systolic array for the 2-D discrete cosine transform. , 0, , .		0
106	A new block adaptive filtering algorithm for decision-feedback equalization of multipath fading channels. , 0, , .		0
107	Title is missing!. Wireless Personal Communications, 2001, 17, 85-101.	2.7	0
108	On weight initialization for adaptive multistage parallel interference cancellation in CDMA systems. , 0, , .		0

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109	A new synchronization scheme for OFDM systems. , 0, , .		0
110	Optimal Selection of Weighting Factors for Variance-Reduced Partial Parallel Interference Cancellation in MC-CDMA Systems. , 2007, , .		0
111	New Upper Bounds on the Redundancy of Optimal One-to-One Codes. , 2007, , .		0
112	A Decentralized Positioning and Tracking Method for Wireless Sensor Networks Based on a Low-Complexity Incremental Algorithm. , 2009, , .		0
113	Introduction to the Special Issue on Model Order Selection in Signal Processing Systems. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 465-467.	10.8	0
114	Improved Opportunistic Multipath Transmission for Bandwidth-Efficient Cooperative Communications. , 2010, , .		0
115	An Energy-Efficient Cooperative SFBC-OFDM System Using Subcarrier Permutation. , 2010, , .		0
116	On the Selection of Partial Cancellation Factors for a Two-Stage Hard-Decision PPIC Scheme in DS-CDMA Systems. IEEE Transactions on Wireless Communications, 2011, 10, 4008-4017.	9.2	0
117	An adaptive receiver design for OFDM-based cooperative relay systems using conjugate transmission. , 2012, , .		0
118	Low-Complexity SLM and PTS Schemes for PAPR Reduction in OFDM Systems. IEICE Transactions on Communications, 2009, E92-B, 2420-2425.	0.7	0