

Wen Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

2,475
citations

26
h-index

46
g-index

181
ext. papers

3,078
ext. citations

5.8
avg. IF

5.66
L-index

#	Paper	IF	Citations
134	Joint Task Offloading and Caching for Massive MIMO-Aided Multi-Tier Computing Networks. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	9
133	Robust Beamforming Design and Time Allocation for IRS-assisted Wireless Powered Communication Networks. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	9
132	Collaborative Intelligent Reflecting Surface Networks with Multi-Agent Reinforcement Learning. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2022 , 1-1	7.5	
131	IRS-Aided WPCNs: A New Optimization Framework for Dynamic IRS Beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	12
130	Task Offloading in Hybrid Intelligent Reflecting Surface and Massive MIMO Relay Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	4
129	Beamforming Design and Power Allocation for Transmissive RMS-based Transmitter Architectures. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9	4
128	Energy-Efficient Task Offloading in Massive MIMO-Aided Multi-Pair Fog-Computing Networks. <i>IEEE Transactions on Communications</i> , 2021 , 69, 2123-2137	6.9	8
127	Joint Rate and Fairness Improvement Based on Adaptive Weighted Graph Matrix for Uplink SCMA With Randomly Distributed Users. <i>IEEE Transactions on Communications</i> , 2021 , 69, 3106-3118	6.9	0
126	Resource Allocation for IRS-assisted Wireless Powered Communication Networks. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9	6
125	Energy-Efficient NOMA Multicasting System for Beyond 5G Cellular V2X Communications With Imperfect CSI. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-15	6.1	11
124	Federated Learning with Unreliable Clients: Performance Analysis and Mechanism Design. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	4
123	Joint Beamforming Design and Power Splitting Optimization in IRS-Assisted SWIPT NOMA Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	19
122	Mitigating the Doubly NearFar Effect in UAV-Enabled WPCN. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 8349-8354	6.8	0
121	Efficient Implementations for Orthogonal Matching Pursuit. <i>Electronics (Switzerland)</i> , 2020 , 9, 1507	2.6	2
120	. <i>IEEE Transactions on Green Communications and Networking</i> , 2020 , 4, 731-744	4	2
119	Content-Centric Heterogeneous Fog Networks Relying on Energy Efficiency Optimization. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 13579-13592	6.8	7
118	On the Fundamental Limits of MIMO Massive Multiple Access Channels 2019 ,		5

117	. <i>IEEE Transactions on Communications</i> , 2019 , 67, 3991-4003	6.9	22
116	Data-Aided Secure Massive MIMO Transmission Under the Pilot Contamination Attack. <i>IEEE Transactions on Communications</i> , 2019 , 67, 4765-4781	6.9	11
115	Generalized Wireless-Powered Communications: When to Activate Wireless Power Transfer?. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 8243-8248	6.8	14
114	Message-Passing Receiver Design for Joint Channel Estimation and Data Decoding in Uplink Grant-Free SCMA Systems. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 167-181	9.6	31
113	Secure SWIPT for Directional Modulation-Aided AF Relaying Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 253-268	14.2	12
112	Spectral and Energy-Efficient Wireless Powered IoT Networks: NOMA or TDMA?. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 6663-6667	6.8	140
111	Polar Coding for the Cognitive Interference Channel With Confidential Messages. <i>IEEE Journal on Selected Areas in Communications</i> , 2018 , 36, 762-774	14.2	4
110	Secure Polar Coding for the Two-Way Wiretap Channel. <i>IEEE Access</i> , 2018 , 6, 21731-21744	3.5	4
109	Hybrid Precoding for Millimeter Wave MIMO Systems: A Matrix Factorization Approach. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 3327-3339	9.6	36
108	IEEE Access Special Section Editorial: High Mobility 5G LTE-V: Challenges and Solutions. <i>IEEE Access</i> , 2018 , 6, 40221-40225	3.5	3
107	Spectral and Energy-Efficient Wireless-Powered IoT Networks 2018 , 233-251		
106	Polar Coding for Noncoherent Block Fading Channels 2018 ,		2
105	Data-Aided Secure Massive MIMO Transmission with Active Eavesdropping 2018 ,		4
104	. <i>IEEE Vehicular Technology Magazine</i> , 2018 , 13, 18-27	9.9	10
103	Hybrid Precoding in mmWave MIMO Broadcast Channels with Dynamic Subarrays and Finite-Alphabet Inputs 2018 ,		1
102	Position-Based Interference Elimination for High-Mobility OFDM Channel Estimation in Multicell Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 7986-8000	6.8	3
101	Joint Optimization of User Association, Subchannel Allocation, and Power Allocation in Multi-Cell Multi-Association OFDMA Heterogeneous Networks. <i>IEEE Transactions on Communications</i> , 2017 , 65, 2672-2684	6.9	50
100	Block Distributed Compressive Sensing-Based Doubly Selective Channel Estimation and Pilot Design for Large-Scale MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 9149-9161	6.8	12

99	Energy-Efficient D2D Overlaying Communications With Spectrum-Power Trading. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 4404-4419	9.6	52
98	. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 4887-4901	4.8	4
97	An Overview of Sustainable Green 5G Networks. <i>IEEE Wireless Communications</i> , 2017 , 24, 72-80	13.4	306
96	Design of Contract-Based Trading Mechanism for a Small-Cell Caching System. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 6602-6617	9.6	47
95	Robust MISO Beamforming Under the Deterministic Model in Two-Tier Heterogeneous Networks. <i>IEEE Access</i> , 2017 , 5, 14616-14625	3.5	6
94	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 3059-3070	6.8	14
93	Low Complexity Iterative Receiver Design for Sparse Code Multiple Access. <i>IEEE Transactions on Communications</i> , 2017 , 65, 621-634	6.9	95
92	ACK feedback based UE-to-CTU mapping rule for SCMA uplink grant-free transmission 2017 ,		9
91	Message Passing Receiver Design for Uplink Grant-Free SCMA 2017 ,		5
90	Energy-efficient scheduling for buffer-aided relaying with opportunistic spectral access (invited paper) 2017 ,		2
89	Joint Source and Relay Beamformer Design for General MIMO Relaying Broadcast Channel with Imperfect Channel State Information. <i>IEICE Transactions on Communications</i> , 2017 , E100.B, 852-864	0.5	
88	Joint User Association and Resource Allocation in the Downlink of Heterogeneous Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 5701-5706	6.8	38
87	Compressed Channel Estimation With Position-Based ICI Elimination for High-Mobility SIMO-OFDM Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 6204-6216	6.8	29
86	Achieving Optimality in Robust Joint Optimization of Linear Transceiver Design. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 1814-1819	6.8	2
85	Joint Subcarrier and Power Allocation for Downlink Transmission in OFDMA Heterogeneous Networks 2016 ,		1
84	User-Centric Energy Efficiency Maximization for Wireless Powered Communications. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6898-6912	9.6	70
83	Joint codebook assignment and power allocation for SCMA based on capacity with Gaussian input 2016 ,		26
82	Energy-Efficient Resource Allocation for Wireless Powered Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 2312-2327	9.6	234

81	Green MU-MIMO/SIMO Switching for Heterogeneous Delay-Aware Services With Constellation Optimization. <i>IEEE Transactions on Communications</i> , 2016 , 64, 1984-1995	6.9	5
80	Efficient Video Pricing and Caching in Heterogeneous Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 8744-8751	6.8	58
79	Joint Tx/Rx Energy-Efficient Scheduling in Multi-Radio Wireless Networks: A Divide-and-Conquer Approach. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 2727-2740	9.6	26
78	A Low Complexity SCMA Decoder Based on List Sphere Decoding 2016 ,		15
77	Energy-Efficient Small Cell With Spectrum-Power Trading. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 3394-3408	14.2	26
76	Robust Joint Source-Relay-Destination Design Under Per-Antenna Power Constraints. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 2639-2649	4.8	7
75	Position-Based Compressed Channel Estimation and Pilot Design for High-Mobility OFDM Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 1918-1929	6.8	61
74	Energy-Efficient Communications in MIMO Systems Based on Adaptive Packets and Congestion Control With Delay Constraints. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 2169-2179	9.6	7
73	Delay-Aware Energy-Efficient Communications Over Nakagami- m Fading Channel With MMPP Traffic. <i>IEEE Transactions on Communications</i> , 2015 , 63, 3008-3020	6.9	11
72	Wireless Powered Communications With Initial Energy: QoS Guaranteed Energy-Efficient Resource Allocation. <i>IEEE Communications Letters</i> , 2015 , 19, 2278-2281	3.8	35
71	. <i>IEEE Transactions on Communications</i> , 2015 , 63, 3553-3568	6.9	99
70	2015 ,		19
69	Compressed channel estimation for high-mobility OFDM systems: Pilot symbol and pilot pattern design 2015 ,		6
68	Robust Beamforming Design for Sum Secrecy Rate Optimization in MU-MISO Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2015 , 10, 1812-1823	8	36
67	Joint Tx/Rx Energy-efficient scheduling in multi-radio networks: A divide-and-conquer approach 2015 ,		1
66	Wireless Powered Communications: Industry Demands and a User-Centric Energy-Efficient Approach 2015 ,		2
65	User-centric energy-efficient resource allocation for wireless powered communications 2015 ,		1
64	Resource Allocation for Joint Transmitter and Receiver Energy Efficiency Maximization in Downlink OFDMA Systems. <i>IEEE Transactions on Communications</i> , 2015 , 63, 416-430	6.9	79

63	Threshold-Based One-Bit Soft Forwarding for a Network Coded Multi-Source Single-Relay System. <i>IEEE Transactions on Communications</i> , 2014 , 62, 1604-1620	6.9	3
62	Generalized Binary Representation for the Nonbinary LDPC Code With Decoder Design. <i>IEEE Transactions on Communications</i> , 2014 , 62, 3070-3083	6.9	4
61	Polyblock Algorithm-Based Robust Beamforming for Downlink Multi-User Systems With Per-Antenna Power Constraints. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 4560-4573	9.6	6
60	Design of Generalized Analog Network Coding for a Multiple-Access Relay Channel. <i>IEEE Transactions on Communications</i> , 2014 , 1-1	6.9	7
59	Congestion aware dynamic user association in Heterogeneous cellular network: A stochastic decision approach 2014 ,		9
58	Optimal energy-efficient transmission for fading channels with an energy harvesting transmitter 2014 ,		6
57	Low complexity energy-efficient design for OFDMA systems with an elaborate power model 2014 ,		4
56	Network coded power adaptation scheme in non-orthogonal multiple-access relay channels 2014 ,		1
55	A new spectrum sensing strategy when primary user has multiple power levels 2014 ,		1
54	Design of Physical Layer Network Coded LDPC Code for a Multiple-Access Relaying System. <i>IEEE Communications Letters</i> , 2013 , 17, 749-752	3.8	7
53	Joint Optimization in Bidirectional Multi-User Multi-Relay MIMO Systems: Non-Robust and Robust Cases. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 3228-3244	6.8	11
52	Efficient Implementations of Orthogonal Matching Pursuit Based on Inverse Cholesky Factorization 2013 ,		2
51	Optimal Binary/Quaternary Adaptive Signature Design for Code-Division Multiplexing. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 840-849	9.6	2
50	On The Throughput-Reliability Tradeoff for Amplify-and-Forward Cooperative Systems. <i>IEEE Transactions on Communications</i> , 2013 , 61, 1290-1303	6.9	3
49	QoS-Based Source and Relay Secure Optimization Design with Presence of Channel Uncertainty. <i>IEEE Communications Letters</i> , 2013 , 17, 1544-1547	3.8	9
48	A CRC-Aided Hybrid Decoding Algorithm for Turbo Codes. <i>IEEE Wireless Communications Letters</i> , 2013 , 2, 471-474	5.9	10
47	Integer-Forcing Linear Receiver Design with Slowest Descent Method. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 2788-2796	9.6	8
46	Relay Beamforming Design with SIC Detection for MIMO Multirelay Networks with Imperfect CSI. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 3774-3785	6.8	9

45	Joint Source and Relay Design for MIMO Relaying Broadcast Channels. <i>IEEE Communications Letters</i> , 2013 , 17, 345-348	3.8	8
44	Asymptotic capacity analysis in multipoint-to-point cognitive radio networks with an arbitrary peak power. <i>Journal of Communications and Networks</i> , 2013 , 15, 576-580	4.1	
43	Asymptotic throughput analysis of random beamforming for multi-antenna cognitive broadcast networks. <i>IET Communications</i> , 2013 , 7, 1550-1556	1.3	3
42	Increasing Security Degree of Freedom in Multiuser and Multieve Systems. <i>IEEE Transactions on Information Forensics and Security</i> , 2013 , 8, 440-449	8	4
41	Coordinated beamforming for wireless multicast cell with nonregenerative multi-antenna relay 2013 ,		1
40	Leakage-Based Robust Beamforming for Multi-Antenna Broadcast System With Per-Antenna Power Constraints and Quantized CDI. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 5181-5192	4.8	7
39	Space-time analog network coding for multiple access relay channels 2013 ,		2
38	Sequential and Incremental Precoder Design for Joint Transmission Network MIMO Systems With Imperfect Backhaul. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 2490-2503	6.8	12
37	Limited-Feedback-Based Adaptive Power Allocation and Subcarrier Pairing for OFDM DF Relay Networks With Diversity. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 2559-2571	6.8	22
36	Regularized Zero-Forcing for Multiantenna Broadcast Channels with User Selection. <i>IEEE Wireless Communications Letters</i> , 2012 , 1, 129-132	5.9	17
35	Efficient Linear Transmission Strategy for MIMO Relaying Broadcast Channels with Direct Links. <i>IEEE Wireless Communications Letters</i> , 2012 , 1, 14-17	5.9	18
34	Optimal Upward Scaling of Minimum-TSC Binary Signature Sets. <i>IEEE Communications Letters</i> , 2012 , 16, 168-171	3.8	
33	Design of Low Complexity Non-Binary LDPC Codes with an Approximated Performance-Complexity Tradeoff. <i>IEEE Communications Letters</i> , 2012 , 16, 514-517	3.8	3
32	Compute-and-Forward Network Coding Design over Multi-Source Multi-Relay Channels. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 3348-3357	9.6	52
31	Efficient Compute-and-Forward Network Codes Search for Two-Way Relay Channel. <i>IEEE Communications Letters</i> , 2012 , 16, 1204-1207	3.8	19
30	Design of Convergence-Optimized Non-Binary LDPC Codes over Binary Erasure Channel. <i>IEEE Wireless Communications Letters</i> , 2012 , 1, 336-339	5.9	1
29	Adaptive Resource Allocation for Improved DF Aided Downlink Multi-User OFDM Systems. <i>IEEE Wireless Communications Letters</i> , 2012 , 1, 557-560	5.9	10
28	Joint subcarrier pairing and power loading in relay aided cognitive radio networks 2012 ,		6

27	Genetic Algorithm Based Nearly Optimal Peak Reduction Tone Set Selection for Adaptive Amplitude Clipping PAPR Reduction. <i>IEEE Transactions on Broadcasting</i> , 2012 , 58, 462-471	4.7	51
26	Wireless adaptive network coding strategy in multiple-access relay channels 2012 ,		2
25	Integer-forcing linear receiver design over MIMO channels 2012 ,		5
24	Joint Shortening and Puncturing Optimization for Structured LDPC Codes. <i>IEEE Communications Letters</i> , 2012 , 16, 2060-2063	3.8	4
23	Network coding in wireless cooperative networks with multiple antenna relays 2012 ,		2
22	On the Super Codes of the First Order Reed-Muller Code Based on m-Sequence Pairs 2011 ,		1
21	A Practical and Efficient Algorithm for Distributed Interference Alignment Based on Cognitive Radio 2010 ,		1
20	PAPR reduction method based on parametric minimum cross entropy for OFDM signals. <i>IEEE Communications Letters</i> , 2010 , 14, 563-565	3.8	16
19	A PAPR Reduction Method Based on Artificial Bee Colony Algorithm for OFDM Signals. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 2994-2999	9.6	79
18	MMSE Based Greedy Antenna Selection Scheme for AF MIMO Relay Systems. <i>IEEE Signal Processing Letters</i> , 2010 , 17, 433-436	3.2	37
17	Finite element simulation of stretch forging using a mesh condensation method. <i>Science China Technological Sciences</i> , 2010 , 53, 227-234	3.5	1
16	Comments on "A New ML Based Interference Cancellation Technique for Layered Space-Time Codes". <i>IEEE Transactions on Communications</i> , 2010 , 58, 3054-3055	6.9	2
15	A new UWB pulse design method for multiple narrow-band interference and wide-band interference mitigation 2009 ,		3
14	Throughput-reliability tradeoff in decode-and-forward cooperative relay channels: A network information theory approach. <i>Journal of Communications and Networks</i> , 2009 , 11, 445-454	4.1	1
13	Information Sharing in Spectrum Auction for Dynamic Spectrum Access 2009 ,		3
12	Joint queue control and user scheduling in MIMO broadcast channel under zero-forcing multiplexing. <i>International Journal of Communication Systems</i> , 2009 , 22, 1593-1607	1.7	2
11	Dynamic power allocation for multi-hop linear non-regenerative relay networks 2009 ,		1
10	Distributed Relay-Source Matching for Cooperative Wireless Networks Using Two-Sided Market Games 2009 ,		5

9	Power allocation in the high SNR regime for a multicast cell with regenerative network coding. <i>IEEE Communications Letters</i> , 2009 , 13, 271-273	3.8	8
8	Resource Allocation in Cooperative OFDMA Systems with Fairness Constraint. <i>IEICE Transactions on Communications</i> , 2009 , E92-B, 1822-1824	0.5	2
7	Physical Layer Network Coding for Wireless Cooperative Multicast Flows. <i>IEICE Transactions on Communications</i> , 2009 , E92-B, 2559-2567	0.5	3
6	Reducing the Computational Complexity for BLAST by Using a Novel Fast Algorithm to Compute an Initial Square-Root Matrix 2008 ,		1
5	A novel complementary sequence and PMEPR reduction in OFDM. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2008 , 33, 45-51	1.4	0
4	Linear Relaying Scheme for MIMO Relay System With QoS Requirements. <i>IEEE Signal Processing Letters</i> , 2008 , 15, 697-700	3.2	39
3	Complex Field Network Coding for Wireless Cooperative Multicast Flows 2008 ,		3
2	Joint Power Allocation and Precoding for Network Coding-Based Cooperative Multicast Systems. <i>IEEE Signal Processing Letters</i> , 2008 , 15, 817-820	3.2	12
1	Minimum MSE Based MIMO-OFDM Precoded Spatial Multiplexing Systems with Limited Feedback 2007 ,		1