Kah Chan` Teh

List of Publications by Year
in descending order

120 papers	2,144 citations	304368 22 h-index	253896 43 g-index
120 all docs	120 docs citations	120 times ranked	2003 citing authors

#	Article	IF	Citations
1	Energy-Efficient Design of Sequential Channel Sensing in Cognitive Radio Networks: Optimal Sensing Strategy, Power Allocation, and Sensing Order. IEEE Journal on Selected Areas in Communications, 2011, 29, 1648-1659.	9.7	241
2	How Much Time is Needed for Qideband Spectrum Sensing?. IEEE Transactions on Wireless Communications, 2009, 8, 5466-5471.	6.1	160
3	Secure Communication in Multiantenna Cognitive Radio Networks With Imperfect Channel State Information. IEEE Transactions on Signal Processing, 2011, 59, 1683-1693.	3.2	117
4	Downlink and Uplink Intelligent Reflecting Surface Aided Networks: NOMA and OMA. IEEE Transactions on Wireless Communications, 2021, 20, 3988-4000.	6.1	115
5	Buffer State Based Relay Selection for Buffer-Aided Cooperative Relaying Systems. IEEE Transactions on Wireless Communications, 2015, 14, 5430-5439.	6.1	97
6	Energy-Efficient Joint Design of Sensing and Transmission Durations for Protection of Primary User in Cognitive Radio Systems. IEEE Communications Letters, 2013, 17, 565-568.	2.5	96
7	Adaptive Transmission for Cooperative NOMA System With Buffer-Aided Relaying. IEEE Communications Letters, 2017, 21, 937-940.	2.5	88
8	Artificial Noise Aided Physical Layer Security in Multi-Antenna Small-Cell Networks. IEEE Transactions on Information Forensics and Security, 2017, 12, 1470-1482.	4.5	72
9	Relay Selection for Secure Successive AF Relaying Networks With Untrusted Nodes. IEEE Transactions on Information Forensics and Security, 2016, 11, 2466-2476.	4.5	53
10	Generalized Relay Selection for Improved Security in Cooperative DF Relay Networks. IEEE Wireless Communications Letters, 2016, 5, 28-31.	3.2	49
11	Enhanced Physical Layer Security in D2D Spectrum Sharing Networks. IEEE Wireless Communications Letters, 2016, , 1-1.	3.2	43
12	Optimal Spectrum Access and Energy Supply for Cognitive Radio Systems With Opportunistic RF Energy Harvesting. IEEE Transactions on Vehicular Technology, 2017, 66, 7114-7122.	3.9	41
13	An Efficient Successive Relaying Protocol for Multiple-Relay Cooperative Networks. IEEE Transactions on Wireless Communications, 2012, 11, 1892-1899.	6.1	36
14	Physical Layer Security in Heterogeneous Networks With Pilot Attack: A Stochastic Geometry Approach. IEEE Transactions on Communications, 2018, 66, 6437-6449.	4.9	35
15	Secrecy Throughput Maximization for MISO Multi-Eavesdropper Wiretap Channels. IEEE Transactions on Information Forensics and Security, 2017, 12, 505-515.	4.5	34
16	Non-Orthogonal Multiple Access (NOMA) With Multiple Intelligent Reflecting Surfaces. IEEE Transactions on Wireless Communications, 2021, 20, 7184-7195.	6.1	34
17	Channel Selection in Multichannel Cognitive Radio Systems Employing RF Energy Harvesting. IEEE Transactions on Vehicular Technology, 2016, 65, 457-462.	3.9	33
18	On Countermeasures of Pilot Spoofing Attack in Massive MIMO Systems: A Double Channel Training Based Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 6697-6708.	3.9	32

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19	Orthogonal Frequency Diversity Waveform with Range-Doppler Optimization for MIMO Radar. IEEE Signal Processing Letters, 2014, 21, 1201-1205.	2.1	29
20	Piecewise LFM waveform for MIMO radar. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 590-602.	2.6	28
21	Dynamic Cooperative Sensingâ€"Access Policy for Energy-Harvesting Cognitive Radio Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 10137-10141.	3.9	27
22	Throughput of Wireless-Powered Relaying Systems with Buffer-Aided Hybrid Relay. IEEE Transactions on Wireless Communications, 2016, , 1-1.	6.1	26
23	Deep Learning-Based Joint Detection for OFDM-NOMA Scheme. IEEE Communications Letters, 2021, 25, 2609-2613.	2.5	23
24	Joint Iterative Detection/Decoding Scheme for Discrete Two-Dimensional Interference Channels. IEEE Transactions on Communications, 2012, 60, 3548-3555.	4.9	22
25	On the Impact of Adaptive Eavesdroppers in Multi-Antenna Cellular Networks. IEEE Transactions on Information Forensics and Security, 2018, 13, 269-279.	4.5	22
26	Spatial Modulation for RIS-Assisted Uplink Communication: Joint Power Allocation and Passive Beamforming Design. IEEE Transactions on Communications, 2021, 69, 7017-7031.	4.9	21
27	Performance Analysis of LDPC Codes with Maximum-Ratio Combining Cascaded with Selection Combining over Nakagami-m Fading. IEEE Transactions on Wireless Communications, 2011, 10, 1886-1894.	6.1	20
28	Error probability analysis of FFH/MFSK receivers over frequency-selective Rician-fading channels with partial-band-noise jamming. IEEE Transactions on Communications, 2009, 57, 2880-2885.	4.9	19
29	Spectral and Energy Efficiency Analysis for SLNR Precoding in Massive MIMO Systems With Imperfect CSI. IEEE Transactions on Wireless Communications, 2018, 17, 4017-4027.	6.1	17
30	Iterative reduced-complexity multiuser detection based on Chase decoding for synchronous turbo-coded CDMA system. IEEE Journal on Selected Areas in Communications, 2006, 24, 200-208.	9.7	16
31	Piecewise Nonlinear Frequency Modulation Waveform for MIMO Radar. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 379-390.	7.3	16
32	Performance Analysis of a Maximum-Likelihood FFH/MFSK Receiver with Partial-Band-Noise Jamming over Frequency-Selective Fading Channels. IEEE Communications Letters, 2008, 12, 401-403.	2.5	14
33	Performance Analysis of Two-User Cooperative Multiple Access Systems With DF Relaying and Superposition Modulation. IEEE Transactions on Vehicular Technology, 2011, 60, 3118-3126.	3.9	14
34	Energy efficient cognitive radio network based on multiband sensing and spectrum sharing. IET Communications, 2014, 8, 1499-1507.	1.5	14
35	Joint User Pairing and Subchannel Allocation for Multisubchannel Multiuser Nonorthogonal Multiple Access Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 8238-8248.	3.9	14
36	Performance Study of Transmit Antenna Selection With Switch-and-Examine Combining Over Rayleigh Fading. IEEE Transactions on Vehicular Technology, 2012, 61, 4205-4211.	3.9	13

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37	Adaptive Spatial Modulation for Uplink mmWave Communication Systems. IEEE Communications Letters, 2017, 21, 2178-2181.	2.5	13
38	Nonlinear Energy Harvesting for Millimeter Wave Networks With Large-Scale Antennas. IEEE Transactions on Vehicular Technology, 2018, 67, 9488-9498.	3.9	13
39	Outage Performance of Downlink IRS-Assisted NOMA Systems. , 2020, , .		13
40	Iterative multiuser detection for asynchronous CDMA with concatenated convolutional coding. IEEE Journal on Selected Areas in Communications, 2001, 19, 1784-1792.	9.7	12
41	Performance analysis of LDPC codes with selection diversity combining over identical and non-identical rayleigh fading channels. IEEE Communications Letters, 2010, 14, 333-335.	2.5	12
42	Jamming Rejection Using FFH/MFSK ML Receiver Over Fading Channels With the Presence of Timing and Frequency Offsets. IEEE Transactions on Information Forensics and Security, 2013, 8, 1195-1200.	4.5	12
43	A Semidefinite Relaxation Approach for Beamforming in Cooperative Clustered Multicell Systems With Novel Limited Feedback Scheme. IEEE Transactions on Vehicular Technology, 2014, 63, 1740-1748.	3.9	12
44	Throughput Maximization for Wireless-Powered Buffer-Aided Cooperative Relaying Systems. IEEE Transactions on Communications, 2016, 64, 2299-2310.	4.9	12
45	Reduced-Complexity Turbo Equalization for Coded Intersymbol Interference Channels Based on Local Search Algorithms. IEEE Transactions on Vehicular Technology, 2008, 57, 630-635.	3.9	11
46	Analysis of MIMO Diversity With LDPC Codes Based on a Gaussian Approximation Approach Over Rayleigh Fading Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 4650-4656.	3.9	11
47	Nonambiguous Image Formation for Low-Earth-Orbit SAR With Geosynchronous Illumination Based on Multireceiving and CAMP. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 348-362.	2.7	11
48	Simultaneous Moving and Stationary Target Imaging for Geosynchronous Spaceborne-Airborne Bistatic SAR Based on Sparse Separation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6722-6735.	2.7	11
49	Performance and diversity analysis of decodeâ€andâ€forward cooperative system over Nakagamiâ€<i>m</i> fading channels. Wireless Communications and Mobile Computing, 2011, 11, 742-749.	0.8	10
50	Amplify-and-Forward Based Two-Way Relay ARQ System With Relay Combination. IEEE Communications Letters, 2015, 19, 299-302.	2.5	10
51	Performance Analysis of Twoâ€Dimensional Massive Antenna Arrays for Future Mobile Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 5400-5405.	3.9	10
52	Study of Three-Dimensional Beamforming Strategies in Cellular Networks With Clustered User Distribution. IEEE Transactions on Vehicular Technology, 2016, 65, 10208-10213.	3.9	10
53	Enhanced BIOlogically-inspired Spectrum Sharing for cognitive radio networks. , 2010, , .		9
54	Analysis of Transmit Antenna Selection With Switch-and-Examine Combining With Postselection at the Receiver Over Rayleigh Fading Channels. IEEE Transactions on Vehicular Technology, 2013, 62, 2859-2865.	3.9	9

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55	Performance Analysis of Two-Tier HetNets With Massive MIMO and Nonuniformly Small Cell Deployment. IEEE Transactions on Vehicular Technology, 2017, 66, 10044-10054.	3.9	9
56	Pseudocoherent Detection of OOK/PPM Signals as Zero-Delay Transmitted-Reference Signals With Bandpass Downsampling for UWB Communications. IEEE Transactions on Vehicular Technology, 2009, 58, 4141-4148.	3.9	8
57	Joint Message-Passing Decoding of LDPC Codes and 2-D ISI Channels. IEEE Transactions on Magnetics, 2013, 49, 675-681.	1.2	8
58	Network Sum-Rate Optimization for Multicell Massive MIMO Downlink Based on Coordinated Tilt Adaptation and Game Theory Approach. IEEE Wireless Communications Letters, 2016, 5, 64-67.	3.2	8
59	Performance of two-way amplify-and-forward relay networks over asymmetric channels. , 2009, , .		7
60	Performance Analysis of Orthogonal Space-Time Block Code With Minimum-Selection Generalized Selection Combining Receiver Over Rayleigh Fading. IEEE Transactions on Vehicular Technology, 2012, 61, 1463-1467.	3.9	7
61	Two-Step User Pairing for OFDM-Based Cooperative NOMA Systems. IEEE Communications Letters, 2020, 24, 903-906.	2.5	7
62	Iterative reduced-state multiuser detection for asynchronous coded CDMA. IEEE Transactions on Communications, 2002, 50, 1892-1894.	4.9	6
63	Iterative reduced-state decoding for coded partial-response channels. IEEE Transactions on Magnetics, 2005, 41, 4335-4337.	1.2	6
64	Robust space-time adaptive processing for nonhomogeneous clutter in the presence of model errors. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 155-168.	2.6	6
65	Performance analysis of massive multiuser multiple‐input multiple‐output systems with block diagonalisation. IET Communications, 2016, 10, 832-838.	1.5	6
66	Performance of Space-Shift Keying With Buffer-Aided Amplify-and-Forward Relaying. IEEE Transactions on Vehicular Technology, 2017, 66, 6899-6907.	3.9	6
67	Mismatched filter for transmit waveform with frequency notches. IET Radar, Sonar and Navigation, 2018, 12, 332-340.	0.9	6
68	Geosynchronous Spaceborne–Airborne Bistatic SAR Imaging Based on Fast Low-Rank and Sparse Matrices Recovery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	6
69	Deep Non-Cooperative Spectrum Sensing Over Rayleigh Fading Channel. IEEE Transactions on Vehicular Technology, 2022, 71, 4460-4464.	3.9	6
70	Robust Deep Learning-Based End-to-End Receiver for OFDM System With Non-Linear Distortion. IEEE Communications Letters, 2022, 26, 340-344.	2.5	6
71	Interference Identification and Blind Multiuser Detection for Asynchronous CDMA Systems With Multipath Fading. IEEE Transactions on Communications, 2007, 55, 2257-2260.	4.9	5
72	A Blind Adaptive MMSE Multiuser Detector over Multipath CDMA Channels and its Analysis. IEEE Transactions on Wireless Communications, 2008, 7, 90-97.	6.1	5

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73	Analysis of MIMO Band-Limited DS-CDMA Systems in the Presence of Multitone Jamming Over Generalized-K Fading Channels. IEEE Transactions on Vehicular Technology, 2009, 58, 3825-3829.	3.9	5
74	Reduced-State Bahlâ€"Cockeâ€"Jalinekâ€"Raviv Detector for Patterned Media Storage. IEEE Transactions on Magnetics, 2010, 46, 4108-4110.	1.2	5
75	Frequency coding waveform with segment LFM. , 2015, , .		5
76	Energy and Spectral Efficiency of Leakage-Based Precoding for Large-Scale MU-MIMO Systems. IEEE Communications Letters, 2015, 19, 2041-2044.	2.5	5
77	Eigensubspace method for spaceâ€"time adaptive processing in the presence of nonâ€"i.i.d. clutter and array errors. IET Radar, Sonar and Navigation, 2018, 12, 757-765.	0.9	5
78	Joint Low-Rank and Sparse Tensors Recovery for Video Synthetic Aperture Radar Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	5
79	Rejection of Multitone Jamming for FFH/MFSK Spread-Spectrum Systems over Frequency-Selective Rayleigh-Fading Channels. IEEE Vehicular Technology Conference, 2008, , .	0.2	4
80	Performance Analysis of Binned Orthogonal/Bi-Orthogonal Block Code as Dirty-Paper Code for Digital Watermarking Application. IEEE Signal Processing Letters, 2009, 16, 208-211.	2.1	4
81	An Achievable Rate Region for the Cognitive Interference Channel With Causal Bidirectional Cooperation. IEEE Transactions on Vehicular Technology, 2010, 59, 1721-1728.	3.9	4
82	Performance Evaluation of Maximum-Likelihood Page Detection for 2-D Interference Channel. IEEE Transactions on Magnetics, 2012, 48, 2239-2242.	1.2	4
83	Detection and countermeasure of interference in slow FH/MFSK systems over fading channels. Physical Communication, 2014, 10, 11-23.	1.2	4
84	Energy-Harvesting Cognitive Radio Systems Cooperating for Spectrum Sensing and Utilization. , 2015, , .		4
85	Performance Analysis of Cooperative NOMA Systems With Adaptive Mode Selection and Subchannel Allocation. IEEE Transactions on Vehicular Technology, 2019, 68, 10981-10990.	3.9	4
86	Detection of partial-band noise interference in slow FH/QPSK systems. , 2012, , .		3
87	Error probability analysis of a novel adaptive beamforming receiver for largeâ€"scale multipleâ€"inputâ€"multipleâ€"output communication system. IET Communications, 2015, 9, 291-299.	1.5	3
88	Double-Modulated Frequency Modulation Waveforms for MIMO Radar. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 2024-2028.	1.4	3
89	Analysis of Error Probability of Orthogonal Dirty-Paper Codes in Watermarking Applications. , 0, , .		2
90	Performance Analysis of Blind-Adaptive-Subspace Multiuser Detectors Over Multipath Fading Channels. IEEE Transactions on Vehicular Technology, 2007, 56, 631-640.	3.9	2

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91	A low-complexity soft-input/soft-output multiuser detector based on local search algorithms. IEEE Transactions on Wireless Communications, 2008, 7, 5257-5262.	6.1	2
92	Multitone interference detection after dehopping process in slow FH/BFSK systems over Rayleigh fading channels. , 2011, , .		2
93	Diversity–multiplexing tradeoff of opportunistic relay system with multiple–antenna destination. IET Communications, 2014, 8, 2563-2573.	1.5	2
94	Distributed Optimization for Resilient Transmission of Confidential Information in Interference Channels. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	2
95	Secure Transmission in MISOME Wiretap Channels with Half and Full-Duplex Active Eavesdroppers. , 2017, , .		2
96	Joint User Clustering and Subcarrier Allocation for Downlink Non-Orthogonal Multiple Access Systems. , 2018, , .		2
97	Low-Complexity Iterative Receiver for Interleaved FDMA (IFDMA) with Cyclic Delay Diversity. , 2006, , .		1
98	An Improved Orthogonal Dirty-Paper Coding Method for Watermarking Applications. , 2007, , .		1
99	Effects of composite PBNJ and MTJ on FFH/MFSK systems with maximum-likelihood receiver over frequency-selective fading channels. , 2011, , .		1
100	Detection of interference in slow FH/16-QAM systems using generalized likelihood ratio test. , 2012, , .		1
101	Interference detection in slow frequency–hopped quadrature phase–shift–keying systems over fading channels. IET Communications, 2013, 7, 1317-1321.	1.5	1
102	A fast-time coding waveform design method and a bound on cross-correlation. , 2016, , .		1
103	Interference exploitation for enhanced security in D2D spectrum sharing networks. , 2017, , .		1
104	Macro Spatial Modulation for Uplink mmWave Communication Systems. , 2017, , .		1
105	Spatial Modulation for Dense mmWave Network with Multi-Connectivity. , 2019, , .		1
106	Adaptive Macro Spatial Modulation for mmWave Dense Networks. IEEE Wireless Communications Letters, 2019, 8, 725-728.	3.2	1
107	Two-Tier NOMA-Based Wireless Powered Communication Networks. IEEE Systems Journal, 2022, 16, 4698-4707.	2.9	1
108	Adaptive Window Length Estimation for Channel Estimation in CDMA Receivers. , 2007, , .		0

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109	Analysis of Asynchronous Band-Limited DS-CDMA with MMSE Multiuser Detector over Generalized-k Fading Channels. Wireless Personal Communications, 2010, 53, 581-590.	1.8	0
110	Detection and classification of unknown MTI and PBNI in slow FH/BFSK systems over Rayleigh fading channels. , 2011, , .		0
111	Performance analysis of synchronous FFH-MA systems with ML receiver over frequency-selective Rayleigh-fading channels. , 2012, , .		0
112	Maximum-likelihood FFH/MFSK receiver with MTJ and PBNJ over frequency-selective Rayleigh fading channels plus timing and frequency offsets. , 2013, , .		0
113	Novel channel covariance matrix feedback strategy in coordinated multicell MISO networks. , 2013, , .		0
114	Classification of follower/stationary interference and multitone interference/partial-band interference in slow frequency-hopping systems. , 2013, , .		0
115	Energy efficiency of relaying systems with ARQ and inter-relay listening. , 2013, , .		0
116	Analysis of beam pattern and spatial capacity of massive antenna array networks with non-uniform user distribution. , 2014, , .		0
117	Energy-Harvesting Cognitive Radio Systems Cooperating for Spectrum Sensing and Utilization. , 2014, , .		0
118	Link adaptation schemes for finite-buffer aided relaying systems with asymmetric channels. , 2015, , .		0
119	Secure Cooperative AF Relaying Networks with Untrustworthy Relay Nodes. , 2016, , .		0
120	Modelling and analysis for two‐tier HCNs with co‐tier and cross‐tier separation dependencies. IET Communications, 2019, 13, 2639-2648.	1.5	0