

# Chee Yen Leow

## List of Publications by Year in descending order

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114  
papers

2,788  
citations

331670

21  
h-index

189892

50  
g-index

118  
all docs

118  
docs citations

118  
times ranked

3144  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Overview of Internet of Things (IoT) and Data Analytics in Agriculture: Benefits and Challenges. IEEE Internet of Things Journal, 2018, 5, 3758-3773.	8.7	817
2	A Comprehensive Survey of Pilot Contamination in Massive MIMO 5G System. IEEE Communications Surveys and Tutorials, 2016, 18, 905-923.	39.4	356
3	Non-Orthogonal Multiple Access for Unmanned Aerial Vehicle Assisted Communication. IEEE Access, 2018, 6, 22716-22727.	4.2	132
4	Distributed and Collaborative Beamforming in Wireless Sensor Networks: Classifications, Trends, and Research Directions. IEEE Communications Surveys and Tutorials, 2017, 19, 2092-2116.	39.4	120
5	Beamforming in Wireless Energy Harvesting Communications Systems: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 1329-1360.	39.4	119
6	Full-Duplex Cooperative Non-Orthogonal Multiple Access With Beamforming and Energy Harvesting. IEEE Access, 2018, 6, 19726-19738.	4.2	69
7	Multiobjective Beamforming Optimization in Collaborative Beamforming via NSGA-II With Selective Distance. IEEE Transactions on Antennas and Propagation, 2017, 65, 2348-2357.	5.1	61
8	PSOGSA-Explore: A new hybrid metaheuristic approach for beamforming optimization in collaborative beamforming. Applied Soft Computing Journal, 2015, 30, 229-237.	7.2	59
9	Wireless powered thermo-pneumatic micropump using frequency-controlled heater. Sensors and Actuators A: Physical, 2015, 233, 1-8.	4.1	56
10	Successive User Relaying in Cooperative NOMA System. IEEE Wireless Communications Letters, 2019, 8, 921-924.	5.0	56
11	On the Study of Analogue Network Coding for Multi-Pair, Bidirectional Relay Channels. IEEE Transactions on Wireless Communications, 2011, 10, 670-681.	9.2	52
12	Energy-Efficient Non-Orthogonal Multiple Access for UAV Communication System. IEEE Transactions on Vehicular Technology, 2019, 68, 10834-10845.	6.3	41
13	Wireless-powered electroactive soft microgripper. Smart Materials and Structures, 2018, 27, 055014.	3.5	38
14	Low-power near-field magnetic wireless energy transfer links: A review of architectures and design approaches. Renewable and Sustainable Energy Reviews, 2017, 77, 486-505.	16.4	36
15	Wideband MIMO antenna system with dual polarization for WiFi and LTE applications. International Journal of Microwave and Wireless Technologies, 2016, 8, 643-650.	1.9	30
16	Thermal analysis of wirelessly powered thermo-pneumatic micropump based on planar LC circuit. Journal of Mechanical Science and Technology, 2016, 30, 2659-2665.	1.5	29
17	Joint Beamforming and Power Management for Nonregenerative MIMO Two-Way Relaying Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 4374-4383.	6.3	28
18	Modular Architecture of a Non-Contact Pinch Actuation Micropump. Sensors, 2012, 12, 12572-12587.	3.8	27

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19	A Triple Band Hybrid MIMO Rectangular Dielectric Resonator Antenna for LTE Applications. IEEE Access, 2019, 7, 122900-122913.	4.2	27
20	Amplify-and-Forward Virtual Full-Duplex Relaying-Based Cooperative NOMA. IEEE Wireless Communications Letters, 2018, 7, 464-467.	5.0	21
21	Robust Non-Orthogonal Multiple Access for Aerial and Ground Users. IEEE Transactions on Wireless Communications, 2020, 19, 4793-4805.	9.2	21
22	Bidirectional flow micropump based on dynamic rectification. Sensors and Actuators A: Physical, 2013, 204, 107-113.	4.1	20
23	Sidelobe reduction and capacity improvement of open-loop collaborative beamforming in wireless sensor networks. PLoS ONE, 2017, 12, e0175510.	2.5	18
24	Beampattern optimization in distributed beamforming using multiobjective and metaheuristic method. , 2014, , .		16
25	Foliage attenuation measurement at millimeter wave frequencies in tropical vegetation. , 2017, , .		16
26	Interference-Aware NOMA for Cellular-Connected UAVs: Stochastic Geometry Analysis. IEEE Journal on Selected Areas in Communications, 2021, 39, 3067-3080.	14.0	16
27	Millimeter wave propagation through foliage: Comparison of models. , 2015, , .		15
28	Performance Evaluation of Localization Accuracy for a Log-Normal Shadow Fading Wireless Sensor Network under Physical Barrier Attacks. Sensors, 2015, 15, 30545-30570.	3.8	15
29	Maximized fairness for NOMA based drone communication system. , 2017, , .		15
30	On Short Term Fairness and Throughput of User Clustering for Downlink Non-Orthogonal Multiple Access System. , 2019, , .		15
31	Cooperative Non-Orthogonal Multiple Access With Physical Layer Network Coding. IEEE Access, 2019, 7, 44894-44902.	4.2	15
32	Two-Stage Design Method for Enhanced Inductive Energy Transmission with Q-Constrained Planar Square Loops. PLoS ONE, 2016, 11, e0148808.	2.5	15
33	A PARETO ELITE SELECTION GENETIC ALGORITHM FOR RANDOM ANTENNA ARRAY BEAMFORMING WITH LOW SIDELobe LEVEL. Progress in Electromagnetics Research B, 2013, 51, 407-425.	1.0	14
34	Wireless Nonradiative Energy Transfer: Antenna performance enhancement techniques. IEEE Antennas and Propagation Magazine, 2015, 57, 16-22.	1.4	14
35	Cooperative non-orthogonal multiple access using two-way relay. , 2017, , .		14
36	Throughput Measurement of a Dual-Band MIMO Rectangular Dielectric Resonator Antenna for LTE Applications. Sensors, 2017, 17, 148.	3.8	14

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37	Robust Beamforming and User Clustering for Guaranteed Fairness in Downlink NOMA With Partial Feedback. IEEE Access, 2019, 7, 121599-121611.	4.2	14
38	Performance Analysis of Hybrid Beamforming Precoders for Multiuser Millimeter Wave NOMA Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 8739-8752.	6.3	14
39	Development of inlaid electrodes for whole column electrochemical detection in HPLC. Lab on A Chip, 2009, 9, 2238.	6.0	13
40	Dual-Polarized MIMO antenna system for WiFi and LTE wireless access point applications. International Journal of Communication Systems, 2017, 30, e2898.	2.5	13
41	The effects of the silicon wafer resistivity on the performance of microelectrical discharge machining. International Journal of Advanced Manufacturing Technology, 2018, 95, 257-266.	3.0	13
42	Mitigating pilot contamination in massive MIMO system &#x2014; 5G: An overview. , 2015, , .		12
43	Wireless Information and Power Transfer in MIMO Virtual Full-Duplex Relaying System. IEEE Transactions on Vehicular Technology, 2017, 66, 11001-11010.	6.3	12
44	Cooperative NOMA System With Virtual Full Duplex User Relaying. IEEE Access, 2019, 7, 2502-2511.	4.2	12
45	Self-Organization Drone-Based Unmanned Aerial Vehicles (UAV) Networks. , 2019, , .		11
46	Null-Steering Beamforming for Enhancing the Physical Layer Security of Non-Orthogonal Multiple Access System. IEEE Access, 2019, 7, 11397-11409.	4.2	11
47	Geometrical Enhancement of Planar Loop Antennas for Inductive Near-Field Data Links. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1762-1765.	4.0	10
48	Displacement-Tolerant Printed Spiral Resonator With Capacitive Compensated-Plates for Non-Radiative Wireless Energy Transfer. IEEE Access, 2019, 7, 10037-10044.	4.2	10
49	Printed Spiral Resonator for Displacement-Tolerant Near-Field Wireless Energy Transfer. IEEE Access, 2019, 7, 172055-172064.	4.2	10
50	Application of NOMA for cellular-connected UAVs: opportunities and challenges. Science China Information Sciences, 2021, 64, 1.	4.3	10
51	Physical Layer Security Using Two-Path Successive Relaying. Sensors, 2016, 16, 846.	3.8	9
52	A Zero-Sum Game Approach for Non-Orthogonal Multiple Access Systems: Legitimate Eavesdropper Case. IEEE Access, 2018, 6, 58764-58773.	4.2	9
53	Micro Pump Pattern Replication Using Printed Circuit Board (PCB) Technology. Materials and Manufacturing Processes, 2013, , 130522152012004.	4.7	8
54	Amplify-and-forward relay selection in cooperative non-orthogonal multiple access. , 2017, , .		8

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55	A Game-Theoretical Modelling Approach for Enhancing the Physical Layer Security of Non-Orthogonal Multiple Access System. IEEE Access, 2019, 7, 5896-5904.	4.2	8
56	Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. IEEE Systems Journal, 2020, 14, 2392-2399.	4.6	8
57	A planar microelectrode array for simultaneous detection of electrically evoked dopamine release from distinct locations of a single isolated neuron. Analyst, The, 2013, 138, 2833.	3.5	7
58	Compact circularly polarized truncated square ring slot antenna with suppressed higher resonances. PLoS ONE, 2017, 12, e0172162.	2.5	7
59	Two-way relay assisted non-orthogonal multiple access. Computer Communications, 2019, 145, 335-344.	5.1	7
60	Fabrication of PDMS multi-layer microstructure: The electroosmosis mechanism in fluidics for life sciences. , 2012, , .		6
61	Interference Cancellation via D2D CSI Sharing for MU-MISO-NOMA System With Limited Feedback. IEEE Transactions on Vehicular Technology, 2021, 70, 4569-4584.	6.3	6
62	Sub-Connected Structure Hybrid Precoding for Millimeter-Wave NOMA Communications. IEEE Wireless Communications Letters, 2021, 10, 1334-1338.	5.0	6
63	Polysilicon Nanowire Fabrication as a Transducer for Fast Reaction Assays in Nano Lab-on-Chip Domain. Sensor Letters, 2013, 11, 333-336.	0.4	6
64	Linear precoded cooperative transmission protocol for wireless broadcast channels. , 2009, , .		5
65	Mask design for the reproducible fabrication and reliable pattern transfer for polysilicon Nanowire. , 2012, , .		5
66	Study of relay position in two-path successive relaying with interference cancellation. , 2014, , .		5
67	Implementation of Relay-Based Emergency Communication System on Software Defined Radio. , 2015, , .		5
68	Simple compensation for lateral misalignments in resonant inductive coupling links. Electronics Letters, 2016, 52, 954-956.	1.0	5
69	A Cat Swarm Optimization based transmission power minimization for an aerial NOMA communication system. Vehicular Communications, 2022, 33, 100426.	4.0	5
70	OUTAGE PERFORMANCE OF COOPERATIVE RELAY PROTOCOL ON UAVS-BASED FLYING ADHOC NETWORK. Jurnal Teknologi (Sciences and Engineering), 2022, 84, 185-194.	0.4	5
71	Non-traditional machining techniques for silicon wafers. International Journal of Advanced Manufacturing Technology, 2022, 121, 29-57.	3.0	5
72	Linear Precoded Cooperative Transmission Protocol for Wireless Broadcast Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 3509-3515.	6.3	4

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73	Two-way secrecy schemes for the broadcast channel with internal eavesdroppers. , 2011, , .		4
74	Relay placement for inter-band carrier aggregation with asymmetrical coverage. , 2013, , .		4
75	A study of the in-column detection performance for chromatography separation. Microfluidics and Nanofluidics, 2015, 19, 343-349.	2.2	4
76	Heat-assisted $\frac{1}{4}$ -electrical discharge machining of silicon. International Journal of Advanced Manufacturing Technology, 2021, 113, 1727-1738.	3.0	4
77	Unmanned Aerial Vehicle (UAV) in Future Communication System. , 2021, , .		4
78	Analysis of opportunistic twoâ€path successive relaying in consideration of interâ€relay interference. IET Communications, 2017, 11, 76-84.	2.2	3
79	Robust multiple frequency multiple power localization schemes in the presence of multiple jamming attacks. PLoS ONE, 2017, 12, e0177326.	2.5	3
80	On the outage probability of large scale decode-and-forward relay wireless networks. AEU - International Journal of Electronics and Communications, 2018, 97, 120-129.	2.9	3
81	Aerial-Terrestrial Network NOMA for Cellular-Connected UAVs. IEEE Transactions on Vehicular Technology, 2022, 71, 6559-6573.	6.3	3
82	Issues and challenges of LTE antenna designs for USB-dongle device. , 2012, , .		2
83	Polydimethylsiloxane (PDMS) Based Microfluidic Droplet Generator for Cell Counting Application. Journal of Medical Imaging and Health Informatics, 2013, 3, 538-542.	0.3	2
84	Opportunistic relays selection for successive relaying with inter-relay interference. , 2015, , .		2
85	Reliable Virtual Full-Duplex Relaying in the Presence of Interrelay Interference. IEEE Transactions on Vehicular Technology, 2017, 66, 9098-9109.	6.3	2
86	Spectrum Sharing Method for Cognitive Radio in TV White Spaces: Enhancing Spectrum Sensing and Geolocation Database. KSII Transactions on Internet and Information Systems, 2012, , .	0.3	2
87	Network NOMA for Co-existence of Aerial and Terrestrial Users. , 2020, , .		2
88	Hybrid Beamformer Exploiting Multistream per User Transmission for Millimeter-Wave NOMA Communications. IEEE Access, 2022, 10, 23074-23085.	4.2	2
89	Joint Beamforming and Power Allocation for MIMO Two-Way Relaying Channels. , 2011, , .		1
90	Beamforming and antenna selection for successive relaying with inter-relay interference. , 2015, , .		1

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91	Miniaturized Planar Tomography for Multiphase Stagnant Sample Detection. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.4	1
92	Interference reduction and capacity improvement in collaborative beamforming networks via directivity optimization. , 2015, , .		1
93	Physical layer security in two-path successive relaying. , 2015, , .		1
94	RELAY BEAMFORMING TO MITIGATE INTER-RELAY INTERFERENCE IN MULTI-CELL SCENARIO. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	1
95	Method to reduce distance-sensitivity within an operating range in HF-RFID WPT links. , 2016, , .		1
96	Non-radiative wireless energy transfer with single layer dual-band printed spiral resonator. Bulletin of Electrical Engineering and Informatics, 2019, 8, 744-752.	0.8	1
97	Analogue network coding for multi-pair, bidirectional relay channels. , 2010, , .		0
98	Microstructure and polymer choice in microfluidic interfacing for nanoscale biosensing. , 2012, , .		0
99	Design and simulation of a saliva collection device using microdialysis concept. , 2012, , .		0
100	Effects of size mismatch in dual-function near-field antennas. , 2014, , .		0
101	COOPERATIVE RELAY PROTOTYPE DEVELOPMENT AND PERFORMANCE MEASUREMENT. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	0
102	On the sparsity-aware partial-update NLMS algorithms for UWB channel estimation. , 2015, , .		0
103	Secrecy Outage Probability of Two-Path Successive Relaying in Physical Layer Security. , 2015, , .		0
104	RELAY NODE POSITIONING FOR INTER-BAND CARRIER AGGREGATION WITH ASYMMETRICAL COVERAGE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
105	Compact wideband directional L-slot antenna for LTE application. , 2017, , .		0
106	Bending Effect on Flexible Surface Acoustic Wave Device towards Resonant Frequency. , 2019, , .		0
107	Dual-Band Resonator Designs for Near-Field Wireless Energy Transfer Applications. , 2020, , .		0
108	COUPLING-BASED TURNS DISTRIBUTION FOR PLANAR SPIRAL COIL ANTENNAS IN NEAR FIELD MAGNETIC INDUCTION LINKS. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	0

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109	JOINT POWER ALLOCATION FOR DF CONCATENATED MIMO SUCCESSIVE RELAYING SCHEME UNDER NETWORK POWER CONSTRAINTS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
110	CHARGING MANAGEMENT PROTOCOL FOR NEAR FIELD COMMUNICATION CHARGING. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
111	A Proposed Framework for Massive MIMO Simulation Platform - 5G Systems. Communications in Computer and Information Science, 2017, , 97-108.	0.5	0
112	A Semidistributed Metaheuristic Algorithm for Collaborative Beamforming in the Internet of Things. , 2017, , 465-480.		0
113	Design Considerations for Wireless Power Delivery Using RFID. , 2017, , 161-177.		0
114	Downlink NOMA for Coexistence of Aerial and Terrestrial Users: Stochastic Geometry Analysis. , 2020, , .		0