

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
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118
all docs

118
docs citations

118
times ranked

3144
citing authors

#	ARTICLE	IF	CITATIONS
1	A Cat Swarm Optimization based transmission power minimization for an aerial NOMA communication system. Vehicular Communications, 2022, 33, 100426.	4.0	5
2	Hybrid Beamformer Exploiting Multistream per User Transmission for Millimeter-Wave NOMA Communications. IEEE Access, 2022, 10, 23074-23085.	4.2	2
3	Aerial-Terrestrial Network NOMA for Cellular-Connected UAVs. IEEE Transactions on Vehicular Technology, 2022, 71, 6559-6573.	6.3	3
4	OUTAGE PERFORMANCE OF COOPERATIVE RELAY PROTOCOL ON UAVS-BASED FLYING ADHOC NETWORK. Jurnal Teknologi (Sciences and Engineering), 2022, 84, 185-194.	0.4	5
5	Non-traditional machining techniques for silicon wafers. International Journal of Advanced Manufacturing Technology, 2022, 121, 29-57.	3.0	5
6	Heat-assisted $\hat{1}/4$ -electrical discharge machining of silicon. International Journal of Advanced Manufacturing Technology, 2021, 113, 1727-1738.	3.0	4
7	Application of NOMA for cellular-connected UAVs: opportunities and challenges. Science China Information Sciences, 2021, 64, 1.	4.3	10
8	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
9	Sub-Connected Structure Hybrid Precoding for Millimeter-Wave NOMA Communications. IEEE Wireless Communications Letters, 2021, 10, 1334-1338.	5.0	6
10	Interference-Aware NOMA for Cellular-Connected UAVs: Stochastic Geometry Analysis. IEEE Journal on Selected Areas in Communications, 2021, 39, 3067-3080.	14.0	16
11	Unmanned Aerial Vehicle (UAV) in Future Communication System. , 2021, , .		4
12	Robust Non-Orthogonal Multiple Access for Aerial and Ground Users. IEEE Transactions on Wireless Communications, 2020, 19, 4793-4805.	9.2	21
13	Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. IEEE Systems Journal, 2020, 14, 2392-2399.	4.6	8
14	Performance Analysis of Hybrid Beamforming Precoders for Multiuser Millimeter Wave NOMA Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 8739-8752.	6.3	14
15	Dual-Band Resonator Designs for Near-Field Wireless Energy Transfer Applications. , 2020, , .		0
16	Downlink NOMA for Coexistence of Aerial and Terrestrial Users: Stochastic Geometry Analysis. , 2020, , .		0
17	Network NOMA for Co-existence of Aerial and Terrestrial Users. , 2020, , .		2
18	On Short Term Fairness and Throughput of User Clustering for Downlink Non-Orthogonal Multiple Access System. , 2019, , .		15

#	ARTICLE	IF	CITATIONS
19	Self-Organization Drone-Based Unmanned Aerial Vehicles (UAV) Networks. , 2019, , .		11
20	Two-way relay assisted non-orthogonal multiple access. Computer Communications, 2019, 145, 335-344.	5.1	7
21	Robust Beamforming and User Clustering for Guaranteed Fairness in Downlink NOMA With Partial Feedback. IEEE Access, 2019, 7, 121599-121611.	4.2	14
22	Energy-Efficient Non-Orthogonal Multiple Access for UAV Communication System. IEEE Transactions on Vehicular Technology, 2019, 68, 10834-10845.	6.3	41
23	A Triple Band Hybrid MIMO Rectangular Dielectric Resonator Antenna for LTE Applications. IEEE Access, 2019, 7, 122900-122913.	4.2	27
24	Displacement-Tolerant Printed Spiral Resonator With Capacitive Compensated-Plates for Non-Radiative Wireless Energy Transfer. IEEE Access, 2019, 7, 10037-10044.	4.2	10
25	Printed Spiral Resonator for Displacement-Tolerant Near-Field Wireless Energy Transfer. IEEE Access, 2019, 7, 172055-172064.	4.2	10
26	Cooperative Non-Orthogonal Multiple Access With Physical Layer Network Coding. IEEE Access, 2019, 7, 44894-44902.	4.2	15
27	Successive User Relaying in Cooperative NOMA System. IEEE Wireless Communications Letters, 2019, 8, 921-924.	5.0	56
28	Bending Effect on Flexible Surface Acoustic Wave Device towards Resonant Frequency. , 2019, , .		0
29	Cooperative NOMA System With Virtual Full Duplex User Relaying. IEEE Access, 2019, 7, 2502-2511.	4.2	12
30	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
31	Null-Steering Beamforming for Enhancing the Physical Layer Security of Non-Orthogonal Multiple Access System. IEEE Access, 2019, 7, 11397-11409.	4.2	11
32	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
33	Full-Duplex Cooperative Non-Orthogonal Multiple Access With Beamforming and Energy Harvesting. IEEE Access, 2018, 6, 19726-19738.	4.2	69
34	Beamforming in Wireless Energy Harvesting Communications Systems: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 1329-1360.	39.4	119
35	Amplify-and-Forward Virtual Full-Duplex Relaying-Based Cooperative NOMA. IEEE Wireless Communications Letters, 2018, 7, 464-467.	5.0	21
36	Non-Orthogonal Multiple Access for Unmanned Aerial Vehicle Assisted Communication. IEEE Access, 2018, 6, 22716-22727.	4.2	132

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37	Wireless-powered electroactive soft microgripper. <i>Smart Materials and Structures</i> , 2018, 27, 055014.	3.5	38
38	The effects of the silicon wafer resistivity on the performance of microelectrical discharge machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 257-266.	3.0	13
39	A Zero-Sum Game Approach for Non-Orthogonal Multiple Access Systems: Legitimate Eavesdropper Case. <i>IEEE Access</i> , 2018, 6, 58764-58773.	4.2	9
40	On the outage probability of large scale decode-and-forward relay wireless networks. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 97, 120-129.	2.9	3
41	An Overview of Internet of Things (IoT) and Data Analytics in Agriculture: Benefits and Challenges. <i>IEEE Internet of Things Journal</i> , 2018, 5, 3758-3773.	8.7	817
42	Dual-polarized MIMO antenna system for WiFi and LTE wireless access point applications. <i>International Journal of Communication Systems</i> , 2017, 30, e2898.	2.5	13
43	Low-power near-field magnetic wireless energy transfer links: A review of architectures and design approaches. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 486-505.	16.4	36
44	Multiobjective Beampattern Optimization in Collaborative Beamforming via NSGA-II With Selective Distance. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 2348-2357.	5.1	61
45	Distributed and Collaborative Beamforming in Wireless Sensor Networks: Classifications, Trends, and Research Directions. <i>IEEE Communications Surveys and Tutorials</i> , 2017, 19, 2092-2116.	39.4	120
46	Reliable Virtual Full-Duplex Relaying in the Presence of Interrelay Interference. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 9098-9109.	6.3	2
47	Wireless Information and Power Transfer in MIMO Virtual Full-Duplex Relaying System. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 11001-11010.	6.3	12
48	Analysis of opportunistic two-path successive relaying in consideration of inter-relay interference. <i>IET Communications</i> , 2017, 11, 76-84.	2.2	3
49	Cooperative non-orthogonal multiple access using two-way relay. , 2017, , .		14
50	Maximized fairness for NOMA based drone communication system. , 2017, , .		15
51	Compact wideband directional L-slot antenna for LTE application. , 2017, , .		0
52	Amplify-and-forward relay selection in cooperative non-orthogonal multiple access. , 2017, , .		8
53	Sidelobe reduction and capacity improvement of open-loop collaborative beamforming in wireless sensor networks. <i>PLoS ONE</i> , 2017, 12, e0175510.	2.5	18
54	Robust multiple frequency multiple power localization schemes in the presence of multiple jamming attacks. <i>PLoS ONE</i> , 2017, 12, e0177326.	2.5	3

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55	Compact circularly polarized truncated square ring slot antenna with suppressed higher resonances. PLoS ONE, 2017, 12, e0172162.	2.5	7
56	Foliage attenuation measurement at millimeter wave frequencies in tropical vegetation. , 2017, , .		16
57	Throughput Measurement of a Dual-Band MIMO Rectangular Dielectric Resonator Antenna for LTE Applications. Sensors, 2017, 17, 148.	3.8	14
58	A Proposed Framework for Massive MIMO Simulation Platform - 5G Systems. Communications in Computer and Information Science, 2017, , 97-108.	0.5	0
59	A Semidistributed Metaheuristic Algorithm for Collaborative Beamforming in the Internet of Things. , 2017, , 465-480.		0
60	Design Considerations for Wireless Power Delivery Using RFID. , 2017, , 161-177.		0
61	RELAY BEAMFORMING TO MITIGATE INTER-RELAY INTERFERENCE IN MULTI-CELL SCENARIO. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	1
62	Physical Layer Security Using Two-Path Successive Relaying. Sensors, 2016, 16, 846.	3.8	9
63	RELAY NODE POSITIONING FOR INTER-BAND CARRIER AGGREGATION WITH ASYMMETRICAL COVERAGE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
64	Simple compensation for lateral misalignments in resonant inductive coupling links. Electronics Letters, 2016, 52, 954-956.	1.0	5
65	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
66	Method to reduce distance-sensitivity within an operating range in HF-RFID WPT links. , 2016, , .		1
67	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
68	A Comprehensive Survey of Pilot Contamination in Massive MIMO"5G System. IEEE Communications Surveys and Tutorials, 2016, 18, 905-923.	39.4	356
69	Two-Stage Design Method for Enhanced Inductive Energy Transmission with Q-Constrained Planar Square Loops. PLoS ONE, 2016, 11, e0148808.	2.5	15
70	JOINT POWER ALLOCATION FOR DF CONCATENATED MIMO SUCCESSIVE RELAYING SCHEME UNDER NETWORK POWER CONSTRAINTS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
71	CHARGING MANAGEMENT PROTOCOL FOR NEAR FIELD COMMUNICATION CHARGING. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
72	Implementation of Relay-Based Emergency Communication System on Software Defined Radio. , 2015, , .		5

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73	Beamforming and antenna selection for successive relaying with inter-relay interference. , 2015, , .		1
74	Millimeter wave propagation through foliage: Comparison of models. , 2015, , .		15
75	Opportunistic relays selection for successive relaying with inter-relay interference. , 2015, , .		2
76	COOPERATIVE RELAY PROTOTYPE DEVELOPMENT AND PERFORMANCE MEASUREMENT. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	0
77	Miniaturized Planar Tomography for Multiphase Stagnant Sample Detection. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.4	1
78	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
79	Interference reduction and capacity improvement in collaborative beamforming networks via directivity optimization. , 2015, , .		1
80	Physical layer security in two-path successive relaying. , 2015, , .		1
81	On the sparsity-aware partial-update NLMS algorithms for UWB channel estimation. , 2015, , .		0
82	Secrecy Outage Probability of Two-Path Successive Relaying in Physical Layer Security. , 2015, , .		0
83	PSOGSA-Explore: A new hybrid metaheuristic approach for beampattern optimization in collaborative beamforming. Applied Soft Computing Journal, 2015, 30, 229-237.	7.2	59
84	Wireless powered thermo-pneumatic micropump using frequency-controlled heater. Sensors and Actuators A: Physical, 2015, 233, 1-8.	4.1	56
85	A study of the in-column detection performance for chromatography separation. Microfluidics and Nanofluidics, 2015, 19, 343-349.	2.2	4
86	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
87	Mitigating pilot contamination in massive MIMO system — 5G: An overview. , 2015, , .		12
88	Wireless Nonradiative Energy Transfer: Antenna performance enhancement techniques. IEEE Antennas and Propagation Magazine, 2015, 57, 16-22.	1.4	14
89	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
90	Study of relay position in two-path successive relaying with interference cancellation. , 2014, , .		5

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91	Beampattern optimization in distributed beamforming using multiobjective and metaheuristic method. , 2014, , .		16
92	Effects of size mismatch in dual-function near-field antennas. , 2014, , .		0
93	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
94	Bidirectional flow micropump based on dynamic rectification. Sensors and Actuators A: Physical, 2013, 204, 107-113.	4.1	20
95	Relay placement for inter-band carrier aggregation with asymmetrical coverage. , 2013, , .		4
96	Polydimethylsiloxane (PDMS) Based Microfluidic Droplet Generator for Cell Counting Application. Journal of Medical Imaging and Health Informatics, 2013, 3, 538-542.	0.3	2
97	Micro Pump Pattern Replication Using Printed Circuit Board (PCB) Technology. Materials and Manufacturing Processes, 2013, , 130522152012004.	4.7	8
98	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
99	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
100	Modular Architecture of a Non-Contact Pinch Actuation Micropump. Sensors, 2012, 12, 12572-12587.	3.8	27
101	Microstructure and polymer choice in microfluidic interfacing for nanoscale biosensing. , 2012, , .		0
102	Fabrication of PDMS multi-layer microstructure: The electroosmosis mechanism in fluidics for life sciences. , 2012, , .		6
103	Design and simulation of a saliva collection device using microdialysis concept. , 2012, , .		0
104	Mask design for the reproducible fabrication and reliable pattern transfer for polysilicon Nanowire. , 2012, , .		5
105	Issues and challenges of LTE antenna designs for USB-dongle device. , 2012, , .		2
106	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
107	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
108	Joint Beamforming and Power Allocation for MIMO Two-Way Relaying Channels. , 2011, , .		1

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109	Linear Precoded Cooperative Transmission Protocol for Wireless Broadcast Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 3509-3515.	6.3	4
110	Joint Beamforming and Power Management for Nonregenerative MIMO Two-Way Relaying Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 4374-4383.	6.3	28
111	Two-way secrecy schemes for the broadcast channel with internal eavesdroppers. , 2011, , .		4
112	Analogue network coding for multi-pair, bidirectional relay channels. , 2010, , .		0
113	Linear precoded cooperative transmission protocol for wireless broadcast channels. , 2009, , .		5
114	Development of inlaid electrodes for whole column electrochemical detection in HPLC. Lab on A Chip, 2009, 9, 2238.	6.0	13