

Chee Yen Leow

List of Publications by Citations

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88
papers

1,719
citations

17
h-index

39
g-index

118
ext. papers

2,309
ext. citations

5
avg, IF

5.54
L-index

#	Paper	IF	Citations
88	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	10.7	419
87	A Comprehensive Survey of Pilot Contamination in Massive MIMO-BG System. <i>IEEE Communications Surveys and Tutorials</i> , 2016 , 18, 905-923	37.1	254
86	Non-Orthogonal Multiple Access for Unmanned Aerial Vehicle Assisted Communication. <i>IEEE Access</i> , 2018 , 6, 22716-22727	3.5	96
85	Beamforming in Wireless Energy Harvesting Communications Systems: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2018 , 20, 1329-1360	37.1	81
84	Distributed and Collaborative Beamforming in Wireless Sensor Networks: Classifications, Trends, and Research Directions. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 2092-2116	37.1	68
83	Full-Duplex Cooperative Non-Orthogonal Multiple Access With Beamforming and Energy Harvesting. <i>IEEE Access</i> , 2018 , 6, 19726-19738	3.5	54
82	PSOGSA-Explore: A new hybrid metaheuristic approach for beam pattern optimization in collaborative beamforming. <i>Applied Soft Computing Journal</i> , 2015 , 30, 229-237	7.5	45
81	Wireless powered thermo-pneumatic micropump using frequency-controlled heater. <i>Sensors and Actuators A: Physical</i> , 2015 , 233, 1-8	3.9	43
80	Multiobjective Beam pattern Optimization in Collaborative Beamforming via NSGA-II With Selective Distance. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2348-2357	4.9	42
79	On the Study of Analogue Network Coding for Multi-Pair, Bidirectional Relay Channels. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 670-681	9.6	36
78	Successive User Relaying in Cooperative NOMA System. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 921-924	5.9	34
77	Energy-Efficient Non-Orthogonal Multiple Access for UAV Communication System. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 10834-10845	6.8	28
76	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	16.2	27
75	Joint Beamforming and Power Management for Nonregenerative MIMO Two-Way Relaying Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 4374-4383	6.8	24
74	Wireless-powered electroactive soft microgripper. <i>Smart Materials and Structures</i> , 2018 , 27, 055014	3.4	21
73	Modular Architecture of a Non-Contact Pinch Actuation Micropump. <i>Sensors</i> , 2012 , 12, 12572-12587	3.8	20
72	Thermal analysis of wirelessly powered thermo-pneumatic micropump based on planar LC circuit. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 2659-2665	1.6	17

71	Amplify-and-Forward Virtual Full-Duplex Relaying-Based Cooperative NOMA. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 464-467	5.9	16
70	Sidelobe reduction and capacity improvement of open-loop collaborative beamforming in wireless sensor networks. <i>PLoS ONE</i> , 2017 , 12, e0175510	3.7	15
69	. <i>IEEE Access</i> , 2019 , 7, 122900-122913	3.5	14
68	. <i>IEEE Access</i> , 2019 , 7, 121599-121611	3.5	13
67	Two-Stage Design Method for Enhanced Inductive Energy Transmission with Q-Constrained Planar Square Loops. <i>PLoS ONE</i> , 2016 , 11, e0148808	3.7	13
66	Wideband MIMO antenna system with dual polarization for WiFi and LTE applications. <i>International Journal of Microwave and Wireless Technologies</i> , 2016 , 8, 643-650	0.8	12
65	Bidirectional flow micropump based on dynamic rectification. <i>Sensors and Actuators A: Physical</i> , 2013 , 204, 107-113	3.9	12
64	Robust Non-Orthogonal Multiple Access for Aerial and Ground Users. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 4793-4805	9.6	11
63	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	3.2	11
62	On Short Term Fairness and Throughput of User Clustering for Downlink Non-Orthogonal Multiple Access System 2019 ,		11
61	Performance Evaluation of Localization Accuracy for a Log-Normal Shadow Fading Wireless Sensor Network under Physical Barrier Attacks. <i>Sensors</i> , 2015 , 15, 30545-70	3.8	11
60	Null-Steering Beamforming for Enhancing the Physical Layer Security of Non-Orthogonal Multiple Access System. <i>IEEE Access</i> , 2019 , 7, 11397-11409	3.5	11
59	Wireless Information and Power Transfer in MIMO Virtual Full-Duplex Relaying System. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 11001-11010	6.8	10
58	Millimeter wave propagation through foliage: Comparison of models 2015 ,		10
57	A PARETO ELITE SELECTION GENETIC ALGORITHM FOR RANDOM ANTENNA ARRAY BEAMFORMING WITH LOW SIDELobe LEVEL. <i>Progress in Electromagnetics Research B</i> , 2013 , 51, 407-425 ^{0.7}		10
56	Development of inlaid electrodes for whole column electrochemical detection in HPLC. <i>Lab on A Chip</i> , 2009 , 9, 2238-44	7.2	10
55	. <i>IEEE Access</i> , 2019 , 7, 172055-172064	3.5	9
54	Geometrical Enhancement of Planar Loop Antennas for Inductive Near-Field Data Links. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 1762-1765	3.8	9

53	Maximized fairness for NOMA based drone communication system 2017 ,		9
52	Physical Layer Security Using Two-Path Successive Relaying. <i>Sensors</i> , 2016 , 16,	3.8	9
51	. <i>IEEE Access</i> , 2019 , 7, 10037-10044	3.5	8
50	. <i>IEEE Antennas and Propagation Magazine</i> , 2015 , 57, 16-22	1.7	8
49	Performance Analysis of Hybrid Beamforming Precoders for Multiuser Millimeter Wave NOMA Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 8739-8752	6.8	8
48	Foliage attenuation measurement at millimeter wave frequencies in tropical vegetation 2017 ,		8
47	Throughput Measurement of a Dual-Band MIMO Rectangular Dielectric Resonator Antenna for LTE Applications. <i>Sensors</i> , 2017 , 17,	3.8	8
46	Cooperative non-orthogonal multiple access using two-way relay 2017 ,		8
45	Beampattern optimization in distributed beamforming using multiobjective and metaheuristic method 2014 ,		7
44	Cooperative NOMA System With Virtual Full Duplex User Relaying. <i>IEEE Access</i> , 2019 , 7, 2502-2511	3.5	7
43	Dual-polarized MIMO antenna system for WiFi and LTE wireless access point applications. <i>International Journal of Communication Systems</i> , 2017 , 30, e2898	1.7	6
42	Cooperative Non-Orthogonal Multiple Access With Physical Layer Network Coding. <i>IEEE Access</i> , 2019 , 7, 44894-44902	3.5	6
41	A planar microelectrode array for simultaneous detection of electrically evoked dopamine release from distinct locations of a single isolated neuron. <i>Analyst, The</i> , 2013 , 138, 2833-9	5	6
40	Mitigating pilot contamination in massive MIMO system 5G: An overview 2015 ,		5
39	Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. <i>IEEE Systems Journal</i> , 2020 , 14, 2392-2399	4.3	5
38	Polysilicon Nanowire Fabrication as a Transducer for Fast Reaction Assays in Nano Lab-on-Chip Domain. <i>Sensor Letters</i> , 2013 , 11, 333-336	0.9	5
37	Sub-Connected Structure Hybrid Precoding for Millimeter-Wave NOMA Communications. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1334-1338	5.9	5
36	Amplify-and-forward relay selection in cooperative non-orthogonal multiple access 2017 ,		4

35	Mask design for the reproducible fabrication and reliable pattern transfer for polysilicon Nanowire 2012,		4
34	Micropump Pattern Replication Using Printed Circuit Board (PCB) Technology. <i>Materials and Manufacturing Processes</i> , 2013 , 130522152012004	4.1	4
33	Linear precoded cooperative transmission protocol for wireless broadcast channels 2009,		4
32	Simple compensation for lateral misalignments in resonant inductive coupling links. <i>Electronics Letters</i> , 2016 , 52, 954-956	1.1	4
31	A Zero-Sum Game Approach for Non-Orthogonal Multiple Access Systems: Legitimate Eavesdropper Case. <i>IEEE Access</i> , 2018 , 6, 58764-58773	3.5	4
30	Interference-Aware NOMA for Cellular-Connected UAVs: Stochastic Geometry Analysis. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 3067-3080	14.2	4
29	A study of the in-column detection performance for chromatography separation. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 343-349	2.8	3
28	Robust multiple frequency multiple power localization schemes in the presence of multiple jamming attacks. <i>PLoS ONE</i> , 2017 , 12, e0177326	3.7	3
27	Compact circularly polarized truncated square ring slot antenna with suppressed higher resonances. <i>PLoS ONE</i> , 2017 , 12, e0172162	3.7	3
26	Two-way relay assisted non-orthogonal multiple access. <i>Computer Communications</i> , 2019 , 145, 335-344	5.1	3
25	Analysis of opportunistic two-path successive relaying in consideration of inter-relay interference. <i>IET Communications</i> , 2017 , 11, 76-84	1.3	3
24	Fabrication of PDMS multi-layer microstructure: The electroosmosis mechanism in fluidics for life sciences 2012,		3
23	Linear Precoded Cooperative Transmission Protocol for Wireless Broadcast Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 3509-3515	6.8	3
22	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	2.8	3
21	Self-Organization Drone-Based Unmanned Aerial Vehicles (UAV) Networks 2019,		2
20	Implementation of Relay-Based Emergency Communication System on Software Defined Radio 2015,		2
19	Study of relay position in two-path successive relaying with interference cancellation 2014,		2
18	2011,		2

17	A Cat Swarm Optimization based transmission power minimization for an aerial NOMA communication system. <i>Vehicular Communications</i> , 2022 , 33, 100426	5.7	2
16	Application of NOMA for cellular-connected UAVs: opportunities and challenges. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	2
15	Interference Cancellation via D2D CSI Sharing for MU-MISO-NOMA System With Limited Feedback. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 4569-4584	6.8	2
14	A Game-Theoretical Modelling Approach for Enhancing the Physical Layer Security of Non-Orthogonal Multiple Access System. <i>IEEE Access</i> , 2019 , 7, 5896-5904	3.5	2
13	RFID in the Internet of Things 2018 , 135-152		1
12	Reliable Virtual Full-Duplex Relaying in the Presence of Interrelay Interference. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 9098-9109	6.8	1
11	Beamforming and antenna selection for successive relaying with inter-relay interference 2015 ,		1
10	Miniaturized Planar Tomography for Multiphase Stagnant Sample Detection. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015 , 73,	1.2	1
9	Joint Beamforming and Power Allocation for MIMO Two-Way Relaying Channels 2011 ,		1
8	Network NOMA for Co-existence of Aerial and Terrestrial Users 2020 ,		1
7	Heat-assisted Electrical discharge machining of silicon. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 113, 1727-1738	3.2	1
6	Aerial-Terrestrial Network NOMA for Cellular-Connected UAVs. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	0
5	Non-traditional machining techniques for silicon wafers. <i>International Journal of Advanced Manufacturing Technology</i> ,	3.2	0
4	Design Considerations for Wireless Power Delivery Using RFID 2017 , 161-177		
3	A Proposed Framework for Massive MIMO Simulation Platform - 5G Systems. <i>Communications in Computer and Information Science</i> , 2017 , 97-108	0.3	
2	A Semidistributed Metaheuristic Algorithm for Collaborative Beamforming in the Internet of Things 2017 , 465-480		
1	Hybrid Beamformer Exploiting Multistream per User Transmission for Millimeter-Wave NOMA Communications. <i>IEEE Access</i> , 2022 , 10, 23074-23085	3.5	