

Kae Won Choi

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,630
citations

304743

22
h-index

289244

40
g-index

57
all docs

57
docs citations

57
times ranked

1762
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning Techniques for Cooperative Spectrum Sensing in Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 2209-2221.	14.0	331
2	Distributed Wireless Power Transfer System for Internet of Things Devices. IEEE Internet of Things Journal, 2018, 5, 2657-2671.	8.7	96
3	Wireless-Powered Sensor Networks: How to Realize. IEEE Transactions on Wireless Communications, 2017, 16, 221-234.	9.2	87
4	Simultaneous Wireless Information and Power Transfer (SWIPT) for Internet of Things: Novel Receiver Design and Experimental Validation. IEEE Internet of Things Journal, 2020, 7, 2996-3012.	8.7	69
5	Opportunistic Access to Spectrum Holes Between Packet Bursts: A Learning-Based Approach. IEEE Transactions on Wireless Communications, 2011, 10, 2497-2509.	9.2	65
6	Two-Stage Semi-Distributed Resource Management for Device-to-Device Communication in Cellular Networks. IEEE Transactions on Wireless Communications, 2014, 13, 1908-1920.	9.2	65
7	Sequential detection of cyclostationary signal for cognitive radio systems. IEEE Transactions on Wireless Communications, 2009, 8, 4480-4485.	9.2	59
8	Distributed and Centralized Hybrid CSMA/CA-TDMA Schemes for Single-Hop Wireless Networks. IEEE Transactions on Wireless Communications, 2014, 13, 4050-4065.	9.2	54
9	Toward Realization of Long-Range Wireless-Powered Sensor Networks. IEEE Wireless Communications, 2019, 26, 184-192.	9.0	51
10	Cooperative Spectrum Sensing Under a Random Geometric Primary User Network Model. IEEE Transactions on Wireless Communications, 2011, 10, 1932-1944.	9.2	50
11	Stochastic Optimal Control for Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2016, 15, 686-698.	9.2	50
12	Theory and Experiment for Wireless-Powered Sensor Networks: How to Keep Sensors Alive. IEEE Transactions on Wireless Communications, 2018, 17, 430-444.	9.2	50
13	Outage Probability and Throughput Analysis of SWIPT Enabled Cognitive Relay Network With Ambient Backscatter. IEEE Internet of Things Journal, 2018, 5, 3198-3208.	8.7	45
14	Downlink Subchannel and Power Allocation in Multi-Cell OFDMA Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2011, 10, 2259-2271.	9.2	44
15	Received Power-Based Channel Estimation for Energy Beamforming in Multiple-Antenna RF Energy Transfer System. IEEE Transactions on Signal Processing, 2017, 65, 1461-1476.	5.3	42
16	Foundations of Wireless Information and Power Transfer: Theory, Prototypes, and Experiments. Proceedings of the IEEE, 2022, 110, 8-30.	21.3	36
17	A Novel Coding Metasurface for Wireless Power Transfer Applications. Energies, 2019, 12, 4488.	3.1	31
18	Throughput analysis of two-way relay networks with wireless energy harvesting capabilities. Ad Hoc Networks, 2016, 53, 123-131.	5.5	29

#	ARTICLE	IF	CITATIONS
19	Distributed Random Access Scheme for Collision Avoidance in Cellular Device-to-Device Communication. IEEE Transactions on Wireless Communications, 2015, 14, 3571-3585.	9.2	26
20	Optimal load balancing scheduler for MPTCP-based bandwidth aggregation in heterogeneous wireless environments. Computer Communications, 2017, 112, 116-130.	5.1	26
21	Discovering Mobile Applications in Cellular Device-to-Device Communications: Hash Function and Bloom Filter-Based Approach. IEEE Transactions on Mobile Computing, 2016, 15, 336-349.	5.8	25
22	Battery-Less Location Tracking for Internet of Things: Simultaneous Wireless Power Transfer and Positioning. IEEE Internet of Things Journal, 2019, 6, 9147-9164.	8.7	24
23	Novel Frequency-Splitting SWIPT for Overcoming Amplifier Nonlinearity. IEEE Wireless Communications Letters, 2020, 9, 826-829.	5.0	23
24	Reconfigurable Intelligent Surface-Aided Wireless Communications: Adaptive Beamforming and Experimental Validations. IEEE Access, 2021, 9, 147442-147457.	4.2	22
25	A Dynamic Time Slot Allocation Scheme for Hybrid CSMA/TDMA MAC Protocol. IEEE Wireless Communications Letters, 2013, 2, 535-538.	5.0	21
26	Information Processing and Wireless Energy Harvesting in Two-Way Amplify-and-Forward Relay Networks. , 2016, , .		21
27	Bandwidth Aggregation Protocol and Throughput-Optimal Scheduler for Hybrid RF and Visible Light Communication Systems. IEEE Access, 2018, 6, 32173-32187.	4.2	20
28	Efficient Load-Aware Routing Scheme for Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2010, 9, 1293-1307.	5.8	19
29	Experiment, Modeling, and Analysis of Wireless-Powered Sensor Network for Energy Neutral Power Management. IEEE Systems Journal, 2018, 12, 3381-3392.	4.6	17
30	Traffic-Aware Optimal Spectral Access in Wireless Powered Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2018, 17, 733-745.	5.8	14
31	ROOMMATEs: An Unsupervised Indoor Peer Discovery Approach for LTE D2D Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 5069-5083.	6.3	13
32	Reconfigurable-Intelligent-Surface-Aided Wireless Power Transfer Systems: Analysis and Implementation. IEEE Internet of Things Journal, 2022, 9, 21338-21356.	8.7	13
33	Analysis and Experiment on Multi-Antenna-to-Multi-Antenna RF Wireless Power Transfer. IEEE Access, 2021, 9, 2018-2031.	4.2	11
34	Design and Implementation of 5.8 GHz RF Wireless Power Transfer System. IEEE Access, 2021, 9, 168520-168534.	4.2	11
35	Backscatter-Aided Cooperative Transmission in Wireless-Powered Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2020, 19, 7309-7323.	9.2	10
36	Beam Avoidance for Human Safety in Radiative Wireless Power Transfer. IEEE Access, 2020, 8, 217510-217525.	4.2	8

#	ARTICLE	IF	CITATIONS
37	Coverage probability of distributed wireless power transfer system. , 2017, , .		7
38	Packet Scheduler for Mobile Communications Systems with Time-Varying Capacity Region. IEEE Transactions on Wireless Communications, 2007, 6, 1034-1045.	9.2	4
39	Random access protocol for collision avoidance in cellular device-to-device communication. , 2014, , .		4
40	Dynamic Wireless Energy Harvesting and Optimal Distribution in Multipair DF Relay Network with Nonlinear Energy Conversion Model. Wireless Communications and Mobile Computing, 2018, 2018, 1-14.	1.2	4
41	Demo: Demonstration of Reconfigurable Metasurface for Wireless Communications. , 2020, , .		4
42	On the Joint Distribution of Aggregate Interference at Multiple Wireless Receivers. IEEE Transactions on Vehicular Technology, 2013, 62, 1355-1362.	6.3	3
43	Discovering Mobile Applications in Device-to-Device Communications: Hash Function-Based Approach. , 2014, , .		3
44	Optimal Concurrent Multipath Data Transfer for Bandwidth Aggregation in Heterogeneous Mobile Networks. Wireless Personal Communications, 2019, 107, 1383-1400.	2.7	3
45	On-Off Arbitrary Beam Synthesis and Non-Interactive Beam Management for Phased Antenna Array Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 5959-5973.	6.3	3
46	Multi-Device Charging RIS-Aided Wireless Power Transfer Systems. , 2021, , .		3
47	Outage Probability Analysis of Macro-Diversity Combining in Poisson Field of Access Points. IEEE Communications Letters, 2012, 16, 1208-1211.	4.1	2
48	Adaptive and Distributed Access to Spectrum Holes in Cognitive Radio System. Wireless Personal Communications, 2013, 70, 207-226.	2.7	2
49	Functional Duality Between Distributed Source Coding with One Distortion Criterion and Semi-Deterministic Broadcast Channel Coding in the Case of Correlated Messages. IEEE Communications Letters, 2013, 17, 1236-1239.	4.1	2
50	Adaptive transmission policy over Rayleigh fading channels for cooperative networks with limited feedback. IET Communications, 2013, 7, 1907-1914.	2.2	2
51	Experiment and Modeling of Wireless-Powered Sensor Network. , 2017, , .		2
52	Simultaneously charging multiple sensor nodes in multi-antenna wireless-powered sensor networks. , 2017, , .		2
53	Beam Scanning Methods for Multi-Antenna Wireless Power Transfer with Reconfigurable Intelligent Surface. , 2021, , .		1
54	Drone-Based Sensor Information Gathering System With Beam-Rotation Forward-Scattering Communications and Wireless Power Transfer. IEEE Internet of Things Journal, 2022, 9, 11227-11247.	8.7	1

#	ARTICLE	IF	CITATIONS
55	Variable length signal detection framework for cognitive radio systems. International Journal of Communication Systems, 2014, 27, 482-498.	2.5	0
56	Information Processing and Wireless Energy Harvesting in Interference-Aware Public Safety Networks. Wireless Personal Communications, 2018, 103, 2071-2091.	2.7	0
57	Maximum Likelihood Detection of Random Primary Networks for Cognitive Radio Systems. IEICE Transactions on Communications, 2012, E95.B, 3365-3369.	0.7	0