

# 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  | 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         |
| 2  | Foundations of Wireless Information and Power Transfer: Theory, Prototypes, and Experiments. Proceedings of the IEEE, 2022, 110, 8-30.   | 21.3 | 36        |
| 3  | Reconfigurable-Intelligent-Surface-Aided Wireless Power Transfer Systems: Analysis and Implementation. IEEE Internet of Things Journal, 2022, 9, 21338-21356.                                | 8.7  | 13        |
| 4  | 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         |
| 5  | Analysis and Experiment on Multi-Antenna-to-Multi-Antenna RF Wireless Power Transfer. IEEE Access, 2021, 9, 2018-2031.   | 4.2  | 11        |
| 6  | Reconfigurable Intelligent Surface-Aided Wireless Communications: Adaptive Beamforming and Experimental Validations. IEEE Access, 2021, 9, 147442-147457.                                    | 4.2  | 22        |
| 7  | Beam Scanning Methods for Multi-Antenna Wireless Power Transfer with Reconfigurable Intelligent Surface. , 2021, , .   |      | 1         |
| 8  | Design and Implementation of 5.8 GHz RF Wireless Power Transfer System. IEEE Access, 2021, 9, 168520-168534.   | 4.2  | 11        |
| 9  | Multi-Device Charging RIS-Aided Wireless Power Transfer Systems. , 2021, , .   |      | 3         |
| 10 | 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        |
| 11 | Backscatter-Aided Cooperative Transmission in Wireless-Powered Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2020, 19, 7309-7323.                                    | 9.2  | 10        |
| 12 | Beam Avoidance for Human Safety in Radiative Wireless Power Transfer. IEEE Access, 2020, 8, 217510-217525.   | 4.2  | 8         |
| 13 | Demo: Demonstration of Reconfigurable Metasurface for Wireless Communications. , 2020, , .   |      | 4         |
| 14 | Novel Frequency-Splitting SWIPT for Overcoming Amplifier Nonlinearity. IEEE Wireless Communications Letters, 2020, 9, 826-829.   | 5.0  | 23        |
| 15 | Toward Realization of Long-Range Wireless-Powered Sensor Networks. IEEE Wireless Communications, 2019, 26, 184-192.  | 9.0  | 51        |
| 16 | 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        |
| 17 | A Novel Coding Metasurface for Wireless Power Transfer Applications. Energies, 2019, 12, 4488.   | 3.1  | 31        |
| 18 | Optimal Concurrent Multipath Data Transfer for Bandwidth Aggregation in Heterogeneous Mobile Networks. Wireless Personal Communications, 2019, 107, 1383-1400.                               | 2.7  | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 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        |
| 20 | Distributed Wireless Power Transfer System for Internet of Things Devices. IEEE Internet of Things Journal, 2018, 5, 2657-2671.   | 8.7 | 96        |
| 21 | ROOMMATEs: An Unsupervised Indoor Peer Discovery Approach for LTE D2D Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 5069-5083.   | 6.3 | 13        |
| 22 | Traffic-Aware Optimal Spectral Access in Wireless Powered Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2018, 17, 733-745.   | 5.8 | 14        |
| 23 | 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         |
| 24 | 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        |
| 25 | Experiment, Modeling, and Analysis of Wireless-Powered Sensor Network for Energy Neutral Power Management. IEEE Systems Journal, 2018, 12, 3381-3392.   | 4.6 | 17        |
| 26 | Bandwidth Aggregation Protocol and Throughput-Optimal Scheduler for Hybrid RF and Visible Light Communication Systems. IEEE Access, 2018, 6, 32173-32187.   | 4.2 | 20        |
| 27 | Information Processing and Wireless Energy Harvesting in Interference-Aware Public Safety Networks. Wireless Personal Communications, 2018, 103, 2071-2091.                                       | 2.7 | 0         |
| 28 | Experiment and Modeling of Wireless-Powered Sensor Network. , 2017, , .   |     | 2         |
| 29 | 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        |
| 30 | Optimal load balancing scheduler for MPTCP-based bandwidth aggregation in heterogeneous wireless environments. Computer Communications, 2017, 112, 116-130.                                       | 5.1 | 26        |
| 31 | Coverage probability of distributed wireless power transfer system. , 2017, , .   |     | 7         |
| 32 | Simultaneously charging multiple sensor nodes in multi-antenna wireless-powered sensor networks. , 2017, , .  |     | 2         |
| 33 | Wireless-Powered Sensor Networks: How to Realize. IEEE Transactions on Wireless Communications, 2017, 16, 221-234.  | 9.2 | 87        |
| 34 | Throughput analysis of two-way relay networks with wireless energy harvesting capabilities. Ad Hoc Networks, 2016, 53, 123-131.   | 5.5 | 29        |
| 35 | Information Processing and Wireless Energy Harvesting in Two-Way Amplify-and-Forward Relay Networks. , 2016, , .  |     | 21        |
| 36 | Stochastic Optimal Control for Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2016, 15, 686-698.  | 9.2 | 50        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 37 | 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        |
| 38 | 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        |
| 39 | Discovering Mobile Applications in Device-to-Device Communications: Hash Function-Based Approach. , 2014, , .  |      | 3         |
| 40 | Random access protocol for collision avoidance in cellular device-to-device communication. , 2014, , .   |      | 4         |
| 41 | Variable length signal detection framework for cognitive radio systems. International Journal of Communication Systems, 2014, 27, 482-498.   | 2.5  | 0         |
| 42 | 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        |
| 43 | 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        |
| 44 | Adaptive and Distributed Access to Spectrum Holes in Cognitive Radio System. Wireless Personal Communications, 2013, 70, 207-226.  | 2.7  | 2         |
| 45 | 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         |
| 46 | 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       |
| 47 | Adaptive transmission policy over Rayleigh fading channels for cooperative networks with limited feedback. IET Communications, 2013, 7, 1907-1914.   | 2.2  | 2         |
| 48 | A Dynamic Time Slot Allocation Scheme for Hybrid CSMA/TDMA MAC Protocol. IEEE Wireless Communications Letters, 2013, 2, 535-538.   | 5.0  | 21        |
| 49 | On the Joint Distribution of Aggregate Interference at Multiple Wireless Receivers. IEEE Transactions on Vehicular Technology, 2013, 62, 1355-1362.  | 6.3  | 3         |
| 50 | Outage Probability Analysis of Macro-Diversity Combining in Poisson Field of Access Points. IEEE Communications Letters, 2012, 16, 1208-1211.  | 4.1  | 2         |
| 51 | Maximum Likelihood Detection of Random Primary Networks for Cognitive Radio Systems. IEICE Transactions on Communications, 2012, E95.B, 3365-3369.   | 0.7  | 0         |
| 52 | Downlink Subchannel and Power Allocation in Multi-Cell OFDMA Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2011, 10, 2259-2271.  | 9.2  | 44        |
| 53 | Opportunistic Access to Spectrum Holes Between Packet Bursts: A Learning-Based Approach. IEEE Transactions on Wireless Communications, 2011, 10, 2497-2509.  | 9.2  | 65        |
| 54 | Cooperative Spectrum Sensing Under a Random Geometric Primary User Network Model. IEEE Transactions on Wireless Communications, 2011, 10, 1932-1944.   | 9.2  | 50        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Efficient Load-Aware Routing Scheme for Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2010, 9, 1293-1307.                              | 5.8 | 19        |
| 56 | Sequential detection of cyclostationary signal for cognitive radio systems. IEEE Transactions on Wireless Communications, 2009, 8, 4480-4485.           | 9.2 | 59        |
| 57 | Packet Scheduler for Mobile Communications Systems with Time-Varying Capacity Region. IEEE Transactions on Wireless Communications, 2007, 6, 1034-1045. | 9.2 | 4         |