

# Dong In Kim

## List of Publications by Year in descending order

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262  
papers

12,632  
citations

50276

46  
h-index

26613

107  
g-index

263  
all docs

263  
docs citations

263  
times ranked

9298  
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	Applications of Auction and Mechanism Design in Edge Computing: A Survey. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1034-1058.	7.9	27
3	Dynamics in Coded Edge Computing for IoT: A Fractional Evolutionary Game Approach. IEEE Internet of Things Journal, 2022, 9, 13978-13994.	8.7	3
4	Foundations of Wireless Information and Power Transfer: Theory, Prototypes, and Experiments. Proceedings of the IEEE, 2022, 110, 8-30.	21.3	36
5	A Hierarchical Incentive Design Toward Motivating Participation in Coded Federated Learning. IEEE Journal on Selected Areas in Communications, 2022, 40, 359-375.	14.0	22
6	Learning to Schedule Joint Radar-Communication With Deep Multi-Agent Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2022, 71, 406-422.	6.3	11
7	Doherty Power Amplifier With Extended High-Efficiency Range Based on the Utilization of Multiple Output Power Back-Off Parameters. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2258-2270.	4.6	9
8	Non-Technical Loss Detection Using Deep Reinforcement Learning for Feature Cost Efficiency and Imbalanced Dataset. IEEE Access, 2022, 10, 27084-27095.	4.2	10
9	Access Management in Joint Sensing and Communication Systems: Efficiency Versus Fairness. IEEE Transactions on Vehicular Technology, 2022, 71, 5128-5142.	6.3	4
10	When Optimization Meets Machine Learning: The Case of IRS-Assisted Wireless Networks. IEEE Network, 2022, 36, 190-198.	6.9	3
11	A Configurable and Fully Synthesizable RTL-Based Convolutional Neural Network for Biosensor Applications. Sensors, 2022, 22, 2459.	3.8	3
12	Reconfigurable Intelligent Surface-Aided Joint Radar and Covert Communications: Fundamentals, Optimization, and Challenges. IEEE Vehicular Technology Magazine, 2022, 17, 54-64.	3.4	13
13	A 1.8–2.7 GHz Triple-Band Low Noise Amplifier with 31.5 dB Dynamic Range of Power Gain and Adaptive Power Consumption for LTE Application. Sensors, 2022, 22, 4039.	3.8	4
14	Transferable Deep Reinforcement Learning Framework for Autonomous Vehicles With Joint Radar-Data Communications. IEEE Transactions on Communications, 2022, 70, 5164-5180.	7.8	12
15	Intelligence Reflecting Surface-Aided Integrated Data and Energy Networking Coexisting D2D Communications. IEEE Transactions on Wireless Communications, 2022, 21, 10035-10049.	9.2	3
16	Compact Load Network Having a Controlled Electrical Length for Doherty Power Amplifier. IEEE Access, 2022, 10, 70440-70446.	4.2	4
17	Joint time scheduling and transaction fee selection in blockchain-based RF-powered backscatter cognitive radio network. Computer Networks, 2022, 214, 109135.	5.1	1
18	Toward an Automated Auction Framework for Wireless Federated Learning Services Market. IEEE Transactions on Mobile Computing, 2021, 20, 3034-3048.	5.8	104

#	ARTICLE	IF	CITATIONS
19	Dynamic Model for Network Selection in Next Generation HetNets With Memory-Affecting Rational Users. IEEE Transactions on Mobile Computing, 2021, 20, 1365-1379.	5.8	5
20	Retroreflective Transceiver Array Using a Novel Calibration Method Based on Optimum Phase Searching. IEEE Transactions on Industrial Electronics, 2021, 68, 2510-2520.	7.9	19
21	Heterogeneously Reconfigurable Energy Harvester: An Algorithm for Optimal Reconfiguration. IEEE Internet of Things Journal, 2021, 8, 1437-1452.	8.7	2
22	A 15-W Triple-Mode Wireless Power Transmitting Unit With High System Efficiency Using Integrated Power Amplifier and DC-DC Converter. IEEE Transactions on Industrial Electronics, 2021, 68, 9574-9585.	7.9	7
23	A 15-W Quadruple-Mode Reconfigurable Bidirectional Wireless Power Transceiver With 95% System Efficiency for Wireless Charging Applications. IEEE Transactions on Power Electronics, 2021, 36, 3814-3827.	7.9	9
24	Radio Resource Management in Joint Radar and Communication: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 780-814.	39.4	82
25	A Design of Adaptive Control and Communication Protocol for SWIPT System in 180 nm CMOS Process for Sensor Applications. Sensors, 2021, 21, 848.	3.8	2
26	Adaptive Task Offloading in Coded Edge Computing: A Deep Reinforcement Learning Approach. IEEE Communications Letters, 2021, 25, 3878-3882.	4.1	4
27	2.4 GHz GaN HEMT Class-F Synchronous Rectifier Using an Independent Second Harmonic Tuning Circuit. Sensors, 2021, 21, 1608.	3.8	2
28	A Low-Power 12-Bit 20 MS/s Asynchronously Controlled SAR ADC for WAVE ITS Sensor Based Applications. Sensors, 2021, 21, 2260.	3.8	8
29	Jamming Mitigation in JRC Systems via Deep Reinforcement Learning and Backscatter-supported Intelligent Deception Strategy. , 2021, , .		4
30	Performance Analysis of Power Amplifier Nonlinearity on Multi-Tone SWIPT. IEEE Wireless Communications Letters, 2021, 10, 765-769.	5.0	7
31	A Hierarchical Game Model for OFDM Integrated Radar and Communication Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 5077-5082.	6.3	13
32	Dynamic Network Service Selection in IRS-Assisted Wireless Networks: A Game Theory Approach. IEEE Transactions on Vehicular Technology, 2021, 70, 5160-5165.	6.3	13
33	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
34	Dual-Band RF Wireless Power Transfer System with a Shared-Aperture Dual-Band Tx Array Antenna. Energies, 2021, 14, 3803.	3.1	5
35	A broadband circularly polarized magneto-electric dipole array antenna for 5G millimeter-wave applications. Applied Physics Letters, 2021, 119, .	3.3	4
36	Outage Performance of 3D Mobile UAV Caching for Hybrid Satellite-Terrestrial Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 8280-8285.	6.3	19

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37	Improper Gaussian Signaling for D2D Communication Coexisting MISO Cellular Networks. IEEE Transactions on Wireless Communications, 2021, 20, 5186-5198.	9.2	7
38	Performance Analysis of IoT-Based Overlay Satellite-Terrestrial Networks Under Interference. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 985-1001.	7.9	11
39	A 2.4 GHz Power Receiver Embedded With a Low-Power Transmitter and PCE of 53.8%, for Wireless Charging of IoT/Wearable Devices. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4315-4325.	4.6	6
40	Compact and High Gain 4 $\tilde{\text{A}}$ – 4 Circularly Polarized Microstrip Patch Antenna Array for Next Generation Small Satellite. Applied Sciences (Switzerland), 2021, 11, 8869.	2.5	7
41	A 77-dB Dynamic-Range Analog Front-End for Fine-Dust Detection Systems with Dual-Mode Ultra-Low Noise TIA. Sensors, 2021, 21, 6360.	3.8	3
42	Securing Data Sharing from the Sky: Integrating Blockchains into Drones in 5G and Beyond. IEEE Network, 2021, 35, 78-85.	6.9	26
43	Analysis and Experiment on Multi-Antenna-to-Multi-Antenna RF Wireless Power Transfer. IEEE Access, 2021, 9, 2018-2031.	4.2	11
44	Protecting Multi-Function Wireless Systems From Jammers With Backscatter Assistance: An Intelligent Strategy. IEEE Transactions on Vehicular Technology, 2021, 70, 11812-11826.	6.3	8
45	Optimal Power Allocation for Rate Splitting Communications With Deep Reinforcement Learning. IEEE Wireless Communications Letters, 2021, 10, 2820-2823.	5.0	23
46	Dynamic Edge Association and Resource Allocation in Self-Organizing Hierarchical Federated Learning Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 3640-3653.	14.0	70
47	Learning to Schedule Joint Radar-Communication Requests for Optimal Information Freshness. , 2021, , .		4
48	Beam Scanning Methods for Multi-Antenna Wireless Power Transfer with Reconfigurable Intelligent Surface. , 2021, , .		1
49	Design and Implementation of 5.8 GHz RF Wireless Power Transfer System. IEEE Access, 2021, 9, 168520-168534.	4.2	11
50	Neural Episodic Control-Based Adaptive Modulation and Coding Scheme for Inter-Satellite Communication Link. IEEE Access, 2021, 9, 159175-159186.	4.2	2
51	Multi-Device Charging RIS-Aided Wireless Power Transfer Systems. , 2021, , .		3
52	Latency Minimization in Covert Communication-Enabled Federated Learning Network. IEEE Transactions on Vehicular Technology, 2021, 70, 13447-13452.	6.3	14
53	Social Welfare Maximization Auction in Joint Radar Communication Systems for Autonomous Vehicles. , 2021, , .		2
54	Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. IEEE Transactions on Mobile Computing, 2020, 19, 1731-1744.	5.8	9

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55	A Game-Theoretic Analysis for Complementary and Substitutable IoT Services Delivery With Externalities. IEEE Transactions on Communications, 2020, 68, 615-629.	7.8	20
56	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
57	Outage Probability of 3-D Mobile UAV Relaying for Hybrid Satellite-Terrestrial Networks. IEEE Communications Letters, 2020, 24, 418-422.	4.1	51
58	Mechanism Design for Wireless Powered Spatial Crowdsourcing Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 920-934.	6.3	9
59	6.78 MHz Wireless Power Transmitter Based on a Reconfigurable Class-E Power Amplifier for Multiple Device Charging. IEEE Transactions on Power Electronics, 2020, 35, 5907-5917.	7.9	22
60	A Design of Low-Power 10-bit 1-MS/s Asynchronous SAR ADC for DSRC Application. Electronics (Switzerland), 2020, 9, 1100.	3.1	14
61	A 2.45 GHz High Efficiency CMOS RF Energy Harvester with Adaptive Path Control. Electronics (Switzerland), 2020, 9, 1107.	3.1	9
62	Backscatter-Aided Cooperative Transmission in Wireless-Powered Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2020, 19, 7309-7323.	9.2	10
63	LUT-Based Focal Beamforming System Using 2-D Adaptive Sequential Searching Algorithm for Microwave Power Transfer. IEEE Access, 2020, 8, 196024-196033.	4.2	11
64	Beam Avoidance for Human Safety in Radiative Wireless Power Transfer. IEEE Access, 2020, 8, 217510-217525.	4.2	8
65	Toward Smart Wireless Communications via Intelligent Reflecting Surfaces: A Contemporary Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 2283-2314.	39.4	516
66	IRS-Based Wireless Jamming Attacks: When Jammers Can Attack Without Power. IEEE Wireless Communications Letters, 2020, 9, 1663-1667.	5.0	59
67	Transmitter-Oriented Dual-Mode SWIPT With Deep-Learning-Based Adaptive Mode Switching for IoT Sensor Networks. IEEE Internet of Things Journal, 2020, 7, 8979-8992.	8.7	17
68	Design of a Low Power 10-b 8-MS/s Asynchronous SAR ADC with On-Chip Reference Voltage Generator. Electronics (Switzerland), 2020, 9, 872.	3.1	13
69	DQN-Based Adaptive Modulation Scheme Over Wireless Communication Channels. IEEE Communications Letters, 2020, 24, 1289-1293.	4.1	23
70	Dynamic Power Splitting for SWIPT With Nonlinear Energy Harvesting in Ergodic Fading Channel. IEEE Internet of Things Journal, 2020, 7, 5648-5665.	8.7	11
71	Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. IEEE Systems Journal, 2020, 14, 4340-4343.	4.6	12
72	A Low-Profile Ferrite Dipole VHF Antenna for Integrated Mast Applications. Applied Sciences (Switzerland), 2020, 10, 1642.	2.5	3

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73	A High-Efficiency and Wide-Input Range RF Energy Harvester Using Multiple Rectenna and Adaptive Matching. <i>Energies</i> , 2020, 13, 1023.	3.1	4
74	Cooperative AF-based 3D Mobile UAV Relaying for Hybrid Satellite-Terrestrial Networks. , 2020, , .		6
75	Novel Frequency-Splitting SWIPT for Overcoming Amplifier Nonlinearity. <i>IEEE Wireless Communications Letters</i> , 2020, 9, 826-829.	5.0	23
76	Dynamic Game and Pricing for Data Sponsored 5G Systems With Memory Effect. <i>IEEE Journal on Selected Areas in Communications</i> , 2020, 38, 750-765.	14.0	5
77	Secure 3D Mobile UAV Relaying for Hybrid Satellite-Terrestrial Networks. <i>IEEE Transactions on Wireless Communications</i> , 2020, 19, 2770-2784.	9.2	69
78	Scaled GaN-HEMT Large-Signal Model Based on EM Simulation. <i>Electronics (Switzerland)</i> , 2020, 9, 632.	3.1	2
79	Cognitive Radio Networks with Ambient Backscatter Communication. , 2020, , 125-156.		0
80	Hybrid FS/PS SWIPT based Backscatter Communication for Internet of Things. , 2020, , .		0
81	A Programmable Binary Metasurface for Wireless Power Transfer Application. , 2020, , .		6
82	Experiments and Modeling of 5.8GHz Microwave Wireless Power Transfer with Multiple Antennas. , 2020, , .		4
83	Coverage Probability of 3-D Mobile UAV Networks. <i>IEEE Wireless Communications Letters</i> , 2019, 8, 97-100.	5.0	44
84	Joint Tx Power Allocation and Rx Power Splitting for SWIPT System With Multiple Nonlinear Energy Harvesting Circuits. <i>IEEE Wireless Communications Letters</i> , 2019, 8, 53-56.	5.0	42
85	Incentivizing Consensus Propagation in Proof-of-Stake Based Consortium Blockchain Networks. <i>IEEE Wireless Communications Letters</i> , 2019, 8, 157-160.	5.0	78
86	Toward Realization of Long-Range Wireless-Powered Sensor Networks. <i>IEEE Wireless Communications</i> , 2019, 26, 184-192.	9.0	51
87	Joint Traffic Routing and Virtualized Security Function Activation in Wireless Multihop Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 9205-9219.	6.3	5
88	Efficient Training Management for Mobile Crowd-Machine Learning: A Deep Reinforcement Learning Approach. <i>IEEE Wireless Communications Letters</i> , 2019, 8, 1345-1348.	5.0	81
89	Generalized Coordinated Multipoint (GCoMP)-Enabled NOMA: Outage, Capacity, and Power Allocation. <i>IEEE Transactions on Communications</i> , 2019, 67, 7923-7936.	7.8	30
90	Battery-Less Location Tracking for Internet of Things: Simultaneous Wireless Power Transfer and Positioning. <i>IEEE Internet of Things Journal</i> , 2019, 6, 9147-9164.	8.7	24

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91	5.8 GHz High-Efficiency RF-DC Converter Based on Common-Ground Multiple-Stack Structure. Sensors, 2019, 19, 3257.	3.8	13
92	Incentive Design for Efficient Federated Learning in Mobile Networks: A Contract Theory Approach. , 2019, , .		122
93	Design of a 900 MHz Dual-Mode SWIPT for Low-Power IoT Devices. Sensors, 2019, 19, 4676.	3.8	11
94	Joint Service Pricing and Cooperative Relay Communication for Federated Learning. , 2019, , .		65
95	A design of a 5.6GHz frequency synthesizer with switched bias LIT VCO and low noise on-chip LDO regulator for 5G applications. International Journal of Circuit Theory and Applications, 2019, 47, 1856-1868.	2.0	4
96	Resource Allocation for Wireless-Powered Full-Duplex Relaying Systems With Nonlinear Energy Harvesting Efficiency. IEEE Transactions on Vehicular Technology, 2019, 68, 12079-12093.	6.3	26
97	Detection for Non-Technical Loss by Smart Energy Theft With Intermediate Monitor Meter in Smart Grid. IEEE Access, 2019, 7, 129043-129053.	4.2	39
98	InGaP/GaAs HBT Broadband Power Amplifier IC with 54.3% Fractional Bandwidth Based on Cascode Structure. , 2019, , .		5
99	Guest Editorial Wireless Transmission of Information and Power-Part II. IEEE Journal on Selected Areas in Communications, 2019, 37, 249-252.	14.0	2
100	Toward Secure Blockchain-Enabled Internet of Vehicles: Optimizing Consensus Management Using Reputation and Contract Theory. IEEE Transactions on Vehicular Technology, 2019, 68, 2906-2920.	6.3	409
101	A Fully Integrated Bluetooth Low-Energy Transceiver with Integrated Single Pole Double Throw and Power Management Unit for IoT Sensors. Sensors, 2019, 19, 2420.	3.8	10
102	6-18 GHz GaAs pHEMT Broadband Power Amplifier Based on Dual-Frequency Selective Impedance Matching Technique. IEEE Access, 2019, 7, 66275-66280.	4.2	22
103	Applications of Deep Reinforcement Learning in Communications and Networking: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 3133-3174.	39.4	1,071
104	Bandwidth-Enhanced Circularly Polarized Crescent-Shaped Slot Antenna via Circular-Patch Loading. Applied Sciences (Switzerland), 2019, 9, 1117.	2.5	4
105	A Survey on Blockchain: A Game Theoretical Perspective. IEEE Access, 2019, 7, 47615-47643.	4.2	112
106	Random 3D Mobile UAV Networks: Mobility Modeling and Coverage Probability. IEEE Transactions on Wireless Communications, 2019, 18, 2527-2538.	9.2	84
107	High-Gain Waveguide-Fed Circularly Polarized Spidron Fractal Aperture Antenna. Applied Sciences (Switzerland), 2019, 9, 691.	2.5	5
108	A Sidelobe-Reduced, Four-Beam Array Antenna Fed by a Modified $4 \times 4$ Butler Matrix for 5G Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 4528-4536.	5.1	48

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109	A Survey on Consensus Mechanisms and Mining Strategy Management in Blockchain Networks. IEEE Access, 2019, 7, 22328-22370.	4.2	616
110	Signal Detection for Ambient Backscatter Communication with OFDM Carriers. Sensors, 2019, 19, 517.	3.8	10
111	A Novel Coding Metasurface for Wireless Power Transfer Applications. Energies, 2019, 12, 4488.	3.1	31
112	DSS modulator using the SIDO dc-dc converter for the CMOS RF PA integrated circuit. IET Microwaves, Antennas and Propagation, 2019, 13, 597-601.	1.4	2
113	Reconfigurable Heterogeneous Energy Harvester with Adaptive Mode Switching. , 2019, , .		2
114	Backscatter Based Cooperative Transmission in Wireless-Powered Heterogeneous Networks. , 2019, , .		2
115	Deep Reinforcement Learning for Time Scheduling in RF-Powered Backscatter Cognitive Radio Networks. , 2019, , .		20
116	Broadband InGaP/GaAs HBT Power Amplifier Integrated Circuit Using Cascode Structure and Optimized Shunt Inductor. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5090-5100.	4.6	20
117	Guest Editorial Wireless Transmission of Information and Power—Part I. IEEE Journal on Selected Areas in Communications, 2019, 37, 1-3.	14.0	8
118	Octave Bandwidth Doherty Power Amplifier Using Multiple Resonance Circuit for the Peaking Amplifier. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 583-593.	5.4	66
119	Striving for Efficiency: A 475-kHz High-Efficiency Two-Stage Class-E Power Amplifier. IEEE Microwave Magazine, 2019, 20, 85-90.	0.8	2
120	Fundamentals of Wireless Information and Power Transfer: From RF Energy Harvester Models to Signal and System Designs. IEEE Journal on Selected Areas in Communications, 2019, 37, 4-33.	14.0	452
121	Game-Theoretic Modeling of Backscatter Wireless Sensor Networks Under Smart Interference. IEEE Communications Letters, 2018, 22, 804-807.	4.1	6
122	A 3.9 mW Bluetooth Low-Energy Transmitter Using All-Digital PLL-Based Direct FSK Modulation in 55 nm CMOS. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3037-3048.	5.4	17
123	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
124	Joint Optimal Mode Switching and Power Adaptation for Nonlinear Energy Harvesting SWIPT System Over Fading Channel. IEEE Transactions on Communications, 2018, 66, 1817-1832.	7.8	11
125	X-band two-stage Doherty power amplifier based on pre-matched GaN HEMTs. IET Microwaves, Antennas and Propagation, 2018, 12, 179-184.	1.4	10
126	260- $\mu$ W DCO With Constant Current Over PVT Variations Using FLL and Adjustable LDO. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 739-743.	3.0	8



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127	Wireless-Powered Device-to-Device Communications With Ambient Backscattering: Performance Modeling and Analysis. IEEE Transactions on Wireless Communications, 2018, 17, 1528-1544.	9.2	102
128	A 39.5-dB SNR, 300-Hz Frame-Rate, 56 Å— 70-Channel Read-Out IC for Electromagnetic Resonance Touch Panels. IEEE Transactions on Industrial Electronics, 2018, 65, 5001-5011.	7.9	1
129	Ambient Backscatter Assisted Wireless Powered Communications. IEEE Wireless Communications, 2018, 25, 170-177.	9.0	153
130	Wireless Information and Power Transfer: Rate-Energy Tradeoff for Nonlinear Energy Harvesting. IEEE Transactions on Wireless Communications, 2018, 17, 1966-1981.	9.2	65
131	Distributed Wireless Power Transfer System for Internet of Things Devices. IEEE Internet of Things Journal, 2018, 5, 2657-2671.	8.7	96
132	Optimal Time Scheduling for Wireless-Powered Backscatter Communication Networks. IEEE Wireless Communications Letters, 2018, 7, 820-823.	5.0	38
133	Coordinated Multipoint Transmission in Downlink Multi-Cell NOMA Systems: Models and Spectral Efficiency Performance. IEEE Wireless Communications, 2018, 25, 24-31.	9.0	76
134	A Design of Fast-Settling, Low-Power 4.19-MHz Real-Time Clock Generator With Temperature Compensation and 15-dB Noise Reduction. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 1151-1158.	3.1	9
135	Joint Information and Power Transfer in SWIPT-Enabled CRFID Networks. IEEE Wireless Communications Letters, 2018, 7, 186-189.	5.0	6
136	A Triple-Mode Wireless Power-Receiving Unit With 85.5% System Efficiency for A4WP, WPC, and PMA Applications. IEEE Transactions on Power Electronics, 2018, 33, 3141-3156.	7.9	25
137	Design of a High Efficiency DC-DC Buck Converter With Two-Step Digital PWM and Low Power Self-Tracking Zero Current Detector for IoT Applications. IEEE Transactions on Power Electronics, 2018, 33, 1428-1439.	7.9	51
138	Traffic-Aware Optimal Spectral Access in Wireless Powered Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2018, 17, 733-745.	5.8	14
139	A 6-bit 4MS/s 26f/conversion-step segmented SAR ADC with reduced switching energy for BLE. International Journal of Circuit Theory and Applications, 2018, 46, 375-383.	2.0	7
140	An Antenna Proximity Sensor for Mobile Terminals Using Reflection Coefficient. Sensors, 2018, 18, 2103.	3.8	4
141	Traffic-Aware Optimal Spectrum Sensing Policy in Wireless-Powered Cognitive Radio Networks. , 2018, , .		1
142	Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. , 2018, , .		2
143	Toward a Perpetual IoT System: Wireless Power Management Policy With Threshold Structure. IEEE Internet of Things Journal, 2018, 5, 5254-5270.	8.7	9
144	Dual-Mode CMOS Power Amplifier Based on Load-Impedance Modulation. IEEE Microwave and Wireless Components Letters, 2018, 28, 1041-1043.	3.2	10

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145	A 10- and 12-Bit Multi-Channel Hybrid Type Successive Approximation Register Analog-to-Digital Converter for Wireless Power Transfer System. <i>Energies</i> , 2018, 11, 2673.	3.1	5
146	Robust Design of 3D-Printed 6â€“18 GHz Double-Ridged TEM Horn Antenna. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1582.	2.5	7
147	GaNâ€“HEMT asymmetric threeâ€“way Doherty power amplifier using GPD. <i>IET Microwaves, Antennas and Propagation</i> , 2018, 12, 2115-2121.	1.4	7
148	Novel Sparse-Coded Ambient Backscatter Communication for Massive IoT Connectivity. <i>Energies</i> , 2018, 11, 1780.	3.1	12
149	Multi-Dimensional Sparse-Coded Ambient Backscatter Communication for Massive IoT Networks. <i>Energies</i> , 2018, 11, 2855.	3.1	1
150	40 dB-Isolation, 1.85 dB-Insertion Loss Full CMOS SPDT Switch with Body-Floating Technique and Ultra-Small Active Matching Network Using On-Chip Solenoid Inductor for BLE Applications. <i>Electronics (Switzerland)</i> , 2018, 7, 297.	3.1	2
151	Ambient Backscatter Communications: A Contemporary Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2018, 20, 2889-2922.	39.4	523
152	Experiment, Modeling, and Analysis of Wireless-Powered Sensor Network for Energy Neutral Power Management. <i>IEEE Systems Journal</i> , 2018, 12, 3381-3392.	4.6	17
153	Stackelberg Game for Distributed Time Scheduling in RF-Powered Backscatter Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018, 17, 5606-5622.	9.2	56
154	Downlink Power Allocation for CoMP-NOMA in Multi-Cell Networks. <i>IEEE Transactions on Communications</i> , 2018, 66, 3982-3998.	7.8	148
155	New Reconfigurable Nonlinear Energy Harvester: Boosting Rate-Energy Tradeoff. , 2018, , .		5
156	Dual Mode SWIPT: Waveform Design and Transceiver Architecture with Adaptive Mode Switching Policy. , 2018, , .		9
157	A Design of Small Area, 0.95 mW, 612â€“1152 MHz Open Loop Injection-Locked Frequency Multiplier for IoT Sensor Applications. <i>Sensors</i> , 2018, 18, 1777.	3.8	3
158	Improvement of RF Wireless Power Transmission Using a Circularly Polarized Retrodirective Antenna Array with EBG Structures. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 324.	2.5	10
159	Design of Peak Efficiency of 85.3% WPC/PMA Wireless Power Receiver Using Synchronous Active Rectifier and Multi Feedback Low-Dropout Regulator. <i>Energies</i> , 2018, 11, 479.	3.1	4
160	Single Inductor-Multiple Output DPWM DC-DC Boost Converter with a High Efficiency and Small Area. <i>Energies</i> , 2018, 11, 725.	3.1	5
161	A Wide Input Range Buck-Boost DCâ€“DC Converter Using Hysteresis Triple-Mode Control Technique with Peak Efficiency of 94.8% for RF Energy Harvesting Applications. <i>Energies</i> , 2018, 11, 1618.	3.1	9
162	Design of a Low-Power, Small-Area AEC-Q100-Compliant SENT Transmitter in Signal Conditioning IC for Automotive Pressure and Temperature Complex Sensors in 180 Nm CMOS Technology. <i>Sensors</i> , 2018, 18, 1555.	3.8	8

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163	Broadband Circularly Polarized Slot Antenna Loaded by a Multiple-Circular-Sector Patch. <i>Sensors</i> , 2018, 18, 1576.	3.8	12
164	A High Noise Immunity, 28 Å— 16-Channel Finger Touch Sensing IC Using OFDM and Frequency Translation Technique. <i>Sensors</i> , 2018, 18, 1652.	3.8	3
165	Optimal Spectrum Sensing Policy in RF-Powered Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 9557-9570.	6.3	11
166	A 3-D Meandered Probe-Fed Dual-Band Circularly Polarized Dielectric Resonator Antenna. <i>Sensors</i> , 2018, 18, 2421.	3.8	3
167	Optimal Transmission Policy in Decoupled RF Energy Harvesting Networks. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2018, E101.A, 516-520.	0.3	0
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169	An Inductive 2-D Position Detection IC With 99.8% Accuracy for Automotive EMR Gear Control System. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2017, 25, 1731-1741.	3.1	2
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