

# Dong In Kim

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

242  
papers

7,835  
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35  
h-index

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g-index

263  
ext. papers

10,290  
ext. citations

6  
avg, IF

6.86  
L-index

#	Paper	IF	Citations
242	Wireless Networks With RF Energy Harvesting: A Contemporary Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2015</b> , 17, 757-789	37.1	1479
241	Applications of Deep Reinforcement Learning in Communications and Networking: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2019</b> , 21, 3133-3174	37.1	528
240	Wireless Charging Technologies: Fundamentals, Standards, and Network Applications. <i>IEEE Communications Surveys and Tutorials</i> , <b>2016</b> , 18, 1413-1452	37.1	481
239	A Survey on Consensus Mechanisms and Mining Strategy Management in Blockchain Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 22328-22370	3.5	355
238	Fundamentals of Wireless Information and Power Transfer: From RF Energy Harvester Models to Signal and System Designs. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2019</b> , 37, 4-33	14.2	298
237	Ambient Backscatter Communications: A Contemporary Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2018</b> , 20, 2889-2922	37.1	292
236	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 2906-2920	6.8	251
235	Toward Smart Wireless Communications via Intelligent Reflecting Surfaces: A Contemporary Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2020</b> , 22, 2283-2314	37.1	216
234	Non-Orthogonal Multiple Access (NOMA) for Downlink Multiuser MIMO Systems: User Clustering, Beamforming, and Power Allocation. <i>IEEE Access</i> , <b>2017</b> , 5, 565-577	3.5	187
233	Data Collection and Wireless Communication in Internet of Things (IoT) Using Economic Analysis and Pricing Models: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2016</b> , 18, 2546-2590	37.1	183
232	Compressed Sensing for Wireless Communications: Useful Tips and Tricks. <i>IEEE Communications Surveys and Tutorials</i> , <b>2017</b> , 19, 1527-1550	37.1	163
231	Ambient Backscatter: A New Approach to Improve Network Performance for RF-Powered Cognitive Radio Networks. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 3659-3674	6.9	126
230	. <i>IEEE Wireless Communications</i> , <b>2017</b> , 24, 88-97	13.4	112
229	Ambient Backscatter Assisted Wireless Powered Communications. <i>IEEE Wireless Communications</i> , <b>2018</b> , 25, 170-177	13.4	109
228	Opportunistic Channel Access and RF Energy Harvesting in Cognitive Radio Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2014</b> , 32, 2039-2052	14.2	105
227	Downlink Power Allocation for CoMP-NOMA in Multi-Cell Networks. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 3982-3998	6.9	101
226	Hybrid Backscatter Communication for Wireless-Powered Heterogeneous Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 6557-6570	9.6	92

225	Wireless-Powered Sensor Networks: How to Realize. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 221-234	9.6	72
224	Wireless-Powered Device-to-Device Communications With Ambient Backscattering: Performance Modeling and Analysis. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 1528-1544	9.6	70
223	Distributed Wireless Power Transfer System for Internet of Things Devices. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 2657-2671	10.7	62
222	Coordinated Multipoint Transmission in Downlink Multi-Cell NOMA Systems: Models and Spectral Efficiency Performance. <i>IEEE Wireless Communications</i> , <b>2018</b> , 25, 24-31	13.4	60
221	<b>2019</b> ,		59
220	A Survey on Blockchain: A Game Theoretical Perspective. <i>IEEE Access</i> , <b>2019</b> , 7, 47615-47643	3.5	53
219	Performance Optimization for Cooperative Multiuser Cognitive Radio Networks with RF Energy Harvesting Capability. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 3614-3629	9.6	53
218	Random 3D Mobile UAV Networks: Mobility Modeling and Coverage Probability. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 2527-2538	9.6	52
217	A Design of a Wireless Power Receiving Unit With a High-Efficiency 6.78-MHz Active Rectifier Using Shared DLLs for Magnetic-Resonant A4 WP Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 4484-4498	7.2	51
216	Incentivizing Consensus Propagation in Proof-of-Stake Based Consortium Blockchain Networks. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 157-160	5.9	50
215	Circularly Polarized Spidron Fractal Dielectric Resonator Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2015</b> , 14, 1806-1809	3.8	49
214	Wireless Information and Power Transfer: Rate-Energy Tradeoff for Nonlinear Energy Harvesting. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 1966-1981	9.6	46
213	New SWIPT Using PAPR: How It Works. <i>IEEE Wireless Communications Letters</i> , <b>2016</b> , 5, 672-675	5.9	45
212	Stackelberg Game for Distributed Time Scheduling in RF-Powered Backscatter Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 5606-5622	9.6	45
211	Stochastic Optimal Control for Wireless Powered Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 686-698	9.6	43
210	Octave Bandwidth Doherty Power Amplifier Using Multiple Resonance Circuit for the Peaking Amplifier. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2019</b> , 66, 583-593	3.9	43
209	Efficient Training Management for Mobile Crowd-Machine Learning: A Deep Reinforcement Learning Approach. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 1345-1348	5.9	39
208	Theory and Experiment for Wireless-Powered Sensor Networks: How to Keep Sensors Alive. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 430-444	9.6	38

207	Received Power-Based Channel Estimation for Energy Beamforming in Multiple-Antenna RF Energy Transfer System. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 1461-1476	4.8	35
206	CMOS Startup Charge Pump With Body Bias and Backward Control for Energy Harvesting Step-Up Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2014</b> , 61, 1618-1628	3.9	35
205	Circularly Polarized Semi-Eccentric Annular Dielectric Resonator Antenna for X-Band Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2015</b> , 14, 1810-1813	3.8	34
204	. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 2770-2784	9.6	33
203	Design of a High Efficiency DCDC Buck Converter With Two-Step Digital PWM and Low Power Self-Tracking Zero Current Detector for IoT Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 1428-1439	7.2	33
202	A Design of a 92.4% Efficiency Triple Mode Control DCDC Buck Converter With Low Power Retention Mode and Adaptive Zero Current Detector for IoT/Wearable Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 6946-6960	7.2	33
201	A Sidelobe-Reduced, Four-Beam Array Antenna Fed by a Modified $4 \times 4$ Butler Matrix for 5G Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4528-4536	4.9	32
200	CMOS Power Amplifier Integrated Circuit With Dual-Mode Supply Modulator for Mobile Terminals. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2016</b> , 63, 157-167	3.9	32
199	A Reconfigurable Carrier Leakage Canceler for UHF RFID Reader Front-Ends. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2011</b> , 58, 70-76	3.9	32
198	Design of a High-Efficiency and High-Power Inverted Doherty Amplifier. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 1105-1111	4.1	32
197	Optimal Time Scheduling for Wireless-Powered Backscatter Communication Networks. <i>IEEE Wireless Communications Letters</i> , <b>2018</b> , 7, 820-823	5.9	31
196	Coverage Probability of 3-D Mobile UAV Networks. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 97-100	6.9	31
195	Simultaneous Wireless Information and Power Transfer (SWIPT) for Internet of Things: Novel Receiver Design and Experimental Validation. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 2996-3012	10.7	31
194	Outage Probability of 3-D Mobile UAV Relaying for Hybrid Satellite-Terrestrial Networks. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 418-422	3.8	31
193	Performance Analysis of Wireless Energy Harvesting Cognitive Radio Networks Under Smart Jamming Attacks. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2015</b> , 1, 200-216	6.6	30
192	Doherty Power Amplifier Based on the Fundamental Current Ratio for Asymmetric cells. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 4190-4197	4.1	29
191	Joint Service Pricing and Cooperative Relay Communication for Federated Learning <b>2019</b> ,		29
190	Overlay RF-powered backscatter cognitive radio networks: A game theoretic approach <b>2017</b> ,		29

189	Joint Tx Power Allocation and Rx Power Splitting for SWIPT System With Multiple Nonlinear Energy Harvesting Circuits. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 53-56	5.9	28
188	Toward Realization of Long-Range Wireless-Powered Sensor Networks. <i>IEEE Wireless Communications</i> , <b>2019</b> , 26, 184-192	13.4	28
187	Symmetric Three-Way Doherty Power Amplifier for High Efficiency and Linearity. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2017</b> , 64, 862-866	3.5	28
186	Toward an Automated Auction Framework for Wireless Federated Learning Services Market. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 1-1	4.6	26
185	A New Envelope Predistorter With Envelope Delay Taps for Memory Effect Compensation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 52-59	4.1	25
184	Generalized Coordinated Multipoint (GCoMP)-Enabled NOMA: Outage, Capacity, and Power Allocation. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 7923-7936	6.9	24
183	A Highly Linear Two-Stage Amplifier Integrated Circuit Using InGaP/GaAs HBT. <i>IEEE Journal of Solid-State Circuits</i> , <b>2010</b> , 45, 2038-2043	5.5	23
182	. <i>IEEE Access</i> , <b>2019</b> , 7, 129043-129053	3.5	22
181	Self-Energy Recycling for RF Powered Multi-Antenna Relay Channels. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 812-824	9.6	22
180	Dynamic Edge Association and Resource Allocation in Self-Organizing Hierarchical Federated Learning Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 3640-3653	14.2	22
179	Radio Resource Management in Joint Radar and Communication: A Comprehensive Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2021</b> , 23, 780-814	37.1	22
178	IRS-Based Wireless Jamming Attacks: When Jammers Can Attack Without Power. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 1663-1667	5.9	20
177	Mode Switching for SWIPT Over Fading Channel With Nonlinear Energy Harvesting. <i>IEEE Wireless Communications Letters</i> , <b>2017</b> , 6, 678-681	5.9	20
176	Highly Efficient Fully Integrated GaN-HEMT Doherty Power Amplifier Based on Compact Load Network. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 5203-5211	4.1	20
175	Optimized Current of the Peaking Amplifier for Two-Stage Doherty Power Amplifier. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 209-217	4.1	19
174	A New Compact Load Network for Doherty Amplifiers Using an Imperfect Quarter-Wave Line. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 2313-2319	4.1	19
173	Optimal Data Scheduling and Admission Control for Backscatter Sensor Networks. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 2062-2077	6.9	17
172	A Triple-Mode Wireless Power-Receiving Unit With 85.5% System Efficiency for A4WP, WPC, and PMA Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 3141-3156	7.2	17

171	High-Efficiency Power Amplifier Using an Active Second-Harmonic Injection Technique Under Optimized Third-Harmonic Termination. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2014</b> , 61, 549-553	3.5	17
170	A Wideband Circularly Polarized Pixelated Dielectric Resonator Antenna. <i>Sensors</i> , <b>2016</b> , 16,	3.8	17
169	Wireless Information and Power Transfer: Rate-Energy Tradeoff for Equi-Probable Arbitrary-Shaped Discrete Inputs. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 4393-4407	9.6	17
168	Energy-Arrival-Aware Detection Threshold in Wireless-Powered Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 9201-9213	6.8	16
167	A Wide-Locking-Range Dual Injection-Locked Frequency Divider With an Automatic Frequency Calibration Loop in 65-nm CMOS. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2015</b> , 62, 327-331	3.5	15
166	Battery-Less Location Tracking for Internet of Things: Simultaneous Wireless Power Transfer and Positioning. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 9147-9164	10.7	15
165	Ultrabroadband Linear Power Amplifier Using a Frequency-Selective Analog Predistorter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2011</b> , 58, 264-268	3.5	15
164	Resource Allocation for Wireless-Powered Full-Duplex Relaying Systems With Nonlinear Energy Harvesting Efficiency. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 12079-12093	6.8	14
163	60 GHz GaAs pHEMT Broadband Power Amplifier Based on Dual-Frequency Selective Impedance Matching Technique. <i>IEEE Access</i> , <b>2019</b> , 7, 66275-66280	3.5	13
162	Joint EH Time Allocation and Distributed Beamforming in Interference-Limited Two-Way Networks With EH-Based Relays. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 6395-6408	9.6	13
161	Optimum ASK Modulation Scheme for Passive RFID Tags Under Antenna Mismatch Conditions. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 2337-2343	4.1	13
160	Inverted-load network for high-power Doherty amplifier. <i>IEEE Microwave Magazine</i> , <b>2009</b> , 10, 93-98	1.2	13
159	A 3.9 mW Bluetooth Low-Energy Transmitter Using All-Digital PLL-Based Direct FSK Modulation in 55 nm CMOS. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2018</b> , 65, 3037-3048	3.9	12
158	A Novel Coding Metasurface for Wireless Power Transfer Applications. <i>Energies</i> , <b>2019</b> , 12, 4488	3.1	12
157	Deep Reinforcement Learning for Time Scheduling in RF-Powered Backscatter Cognitive Radio Networks <b>2019</b> ,		12
156	Dual Circularly-Polarized Spidron Fractal Slot Antenna. <i>Electromagnetics</i> , <b>2017</b> , 37, 40-48	0.8	11
155	Baseband Noise Reduction Method Using Captured TX Signal for UHF RFID Reader Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2012</b> , 59, 592-598	8.9	11
154	A 60-W Multicarrier WCDMA Power Amplifier Using an RF Predistorter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2009</b> , 56, 265-269	3.5	11

153	CMOS passive wake-up circuit for sensor network applications. <i>Microwave and Optical Technology Letters</i> , <b>2010</b> , 52, 597-600	1.2	11
152	A Game-Theoretic Analysis for Complementary and Substitutable IoT Services Delivery With Externalities. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 615-629	6.9	11
151	Securing Data Sharing from the Sky: Integrating Blockchains into Drones in 5G and Beyond. <i>IEEE Network</i> , <b>2021</b> , 35, 78-85	11.4	11
150	Compact Load Network for GaN-HEMT Doherty Power Amplifier IC Using Left-Handed and Right-Handed Transmission Lines. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 293-295	2.6	10
149	Traffic-Aware Optimal Spectral Access in Wireless Powered Cognitive Radio Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2018</b> , 17, 733-745	4.6	10
148	Experiment, Modeling, and Analysis of Wireless-Powered Sensor Network for Energy Neutral Power Management. <i>IEEE Systems Journal</i> , <b>2018</b> , 12, 3381-3392	4.3	10
147	Transmitter-Oriented Dual-Mode SWIPT With Deep-Learning-Based Adaptive Mode Switching for IoT Sensor Networks. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 8979-8992	10.7	9
146	DQN-Based Adaptive Modulation Scheme Over Wireless Communication Channels. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 1289-1293	3.8	9
145	Joint Optimal Mode Switching and Power Adaptation for Nonlinear Energy Harvesting SWIPT System Over Fading Channel. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 1817-1832	6.9	9
144	Optimal Spectrum Sensing Policy in RF-Powered Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 9557-9570	6.8	9
143	6.78 MHz Wireless Power Transmitter Based on a Reconfigurable ClassE Power Amplifier for Multiple Device Charging. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 5907-5917	7.2	9
142	Signal Detection for Ambient Backscatter Communication with OFDM Carriers. <i>Sensors</i> , <b>2019</b> , 19,	3.8	9
141	Novel Frequency-Splitting SWIPT for Overcoming Amplifier Nonlinearity. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 826-829	5.9	8
140	Dual Mode SWIPT: Waveform Design and Transceiver Architecture with Adaptive Mode Switching Policy <b>2018</b> ,		8
139	Design of a 900 MHz Dual-Mode SWIPT for Low-Power IoT Devices. <i>Sensors</i> , <b>2019</b> , 19,	3.8	8
138	. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 8220-8234	9.6	8
137	A Design of Low-Power 10-bit 1-MS/s Asynchronous SAR ADC for DSRC Application. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1100	2.6	8
136	Retroreflective Transceiver Array Using a Novel Calibration Method Based on Optimum Phase Searching. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 2510-2520	8.9	8

135	Novel Sparse-Coded Ambient Backscatter Communication for Massive IoT Connectivity. <i>Energies</i> , <b>2018</b> , 11, 1780	3.1	8
134	A Fully Integrated Bluetooth Low-Energy Transceiver with Integrated Single Pole Double Throw and Power Management Unit for IoT Sensors. <i>Sensors</i> , <b>2019</b> , 19,	3.8	7
133	Design of a Low Power 10-b 8-MS/s Asynchronous SAR ADC with On-Chip Reference Voltage Generator. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 872	2.6	7
132	Dynamic Power Splitting for SWIPT With Nonlinear Energy Harvesting in Ergodic Fading Channel. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 5648-5665	10.7	7
131	X-band two-stage Doherty power amplifier based on pre-matched GaN-HEMTs. <i>IET Microwaves, Antennas and Propagation</i> , <b>2018</b> , 12, 179-184	1.6	7
130	5.8 GHz High-Efficiency RF-DC Converter Based on Common-Ground Multiple-Stack Structure. <i>Sensors</i> , <b>2019</b> , 19,	3.8	7
129	Vertical-Strip-Fed Broadband Circularly Polarized Dielectric Resonator Antenna. <i>Sensors</i> , <b>2017</b> , 17,	3.8	7
128	Wideband Circularly Polarized Spidron Fractal Slot Antenna with an Embedded Patch. <i>International Journal of Antennas and Propagation</i> , <b>2017</b> , 2017, 1-7	1.2	7
127	Three-stage doherty amplifier with uneven input splitter. <i>Microwave and Optical Technology Letters</i> , <b>2013</b> , 55, 1405-1409	1.2	7
126	High-Efficiency Class-F Amplifier Design In the Presence of Internal Parasitic Components of Transistors <b>2006</b> ,		7
125	Backscatter-Aided Cooperative Transmission in Wireless-Powered Heterogeneous Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 7309-7323	9.6	7
124	LUT-Based Focal Beamforming System Using 2-D Adaptive Sequential Searching Algorithm for Microwave Power Transfer. <i>IEEE Access</i> , <b>2020</b> , 8, 196024-196033	3.5	7
123	Broadband InGaP/GaAs HBT Power Amplifier Integrated Circuit Using Cascode Structure and Optimized Shunt Inductor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 5090-5100	4.1	7
122	Guest Editorial Wireless Transmission of Information and Power Part I. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2019</b> , 37, 1-3	14.2	7
121	Toward a Perpetual IoT System: Wireless Power Management Policy With Threshold Structure. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 5254-5270	10.7	7
120	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 8280-8285	6.8	7
119	High-efficiency rectifier (5.2 GHz) using a Class-F Dickson charge pump. <i>Microwave and Optical Technology Letters</i> , <b>2017</b> , 59, 3018-3023	1.2	6
118	A Sub-1-V Bulk-Driven Opamp With an Effective Transconductance-Stabilizing Technique. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2015</b> , 62, 1018-1022	3.5	6



117	260- $\mu$ W DCO With Constant Current Over PVT Variations Using FLL and Adjustable LDO. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 739-743	3.5	6
116	Joint Information and Power Transfer in SWIPT-Enabled CRFID Networks. <i>IEEE Wireless Communications Letters</i> , <b>2018</b> , 7, 186-189	5.9	6
115	A Wide Input Range Buck-Boost DCDC Converter Using Hysteresis Triple-Mode Control Technique with Peak Efficiency of 94.8% for RF Energy Harvesting Applications. <i>Energies</i> , <b>2018</b> , 11, 1618	3.1	6
114	Broadband Circularly Polarized Slot Antenna Loaded by a Multiple-Circular-Sector Patch. <i>Sensors</i> , <b>2018</b> , 18,	3.8	6
113	900 MHz CMOS RF-to-DC converter using a cross-coupled charge pump for energy harvesting <b>2011</b> ,		6
112	An optimized Doherty power amplifier using an unequal quadrature input splitter. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 1536-1539	1.2	6
111	Foundations of Wireless Information and Power Transfer: Theory, Prototypes, and Experiments. <i>Proceedings of the IEEE</i> , <b>2022</b> , 110, 8-30	14.3	6
110	Optimal Power Allocation for Rate Splitting Communications With Deep Reinforcement Learning. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 1-1	5.9	6
109	Mechanism Design for Wireless Powered Spatial Crowdsourcing Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 920-934	6.8	6
108	A Wideband Circularly Polarized Antenna with a Multiple-Circular-Sector Dielectric Resonator. <i>Sensors</i> , <b>2016</b> , 16,	3.8	6
107	Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 19, 1731-1744	4.6	6
106	A 15-W Quadruple-Mode Reconfigurable Bidirectional Wireless Power Transceiver With 95% System Efficiency for Wireless Charging Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 3814-3827	7.2	6
105	Dual-Mode CMOS Power Amplifier Based on Load-Impedance Modulation. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 1041-1043	2.6	6
104	Performance Analysis of IoT-Based Overlay Satellite-Terrestrial Networks Under Interference. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2021</b> , 7, 985-1001	6.6	6
103	Cooperative AF-based 3D Mobile UAV Relaying for Hybrid Satellite-Terrestrial Networks <b>2020</b> ,		5
102	Game-Theoretic Modeling of Backscatter Wireless Sensor Networks Under Smart Interference. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 804-807	3.8	5
101	New Reconfigurable Nonlinear Energy Harvester: Boosting Rate-Energy Tradeoff <b>2018</b> ,		5
100	Improvement of RF Wireless Power Transmission Using a Circularly Polarized Retrodirective Antenna Array with EBG Structures. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 324	2.6	5

99	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> , <b>2018</b> , 18,	3.8	5
98	Coverage probability of distributed wireless power transfer system <b>2017</b> ,		5
97	A Hierarchical Incentive Design Toward Motivating Participation in Coded Federated Learning. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2022</b> , 40, 359-375	14.2	5
96	A 2.45 GHz High Efficiency CMOS RF Energy Harvester with Adaptive Path Control. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1107	2.6	5
95	Dynamic Model for Network Selection in Next Generation HetNets With Memory-Affecting Rational Users. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 20, 1365-1379	4.6	5
94	A 6-bit 4[MS/s 26fJ/conversion-step segmented SAR ADC with reduced switching energy for BLE. <i>International Journal of Circuit Theory and Applications</i> , <b>2018</b> , 46, 375-383	2	5
93	High-Gain Waveguide-Fed Circularly Polarized Spidron Fractal Aperture Antenna. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 691	2.6	4
92	Dual-mode supply modulator for CMOS envelope tracking power amplifier integrated circuit. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 1338-1343	1.2	4
91	A Design of Fast-Settling, Low-Power 4.19-MHz Real-Time Clock Generator With Temperature Compensation and 15-dB Noise Reduction. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2018</b> , 26, 1151-1158	2.6	4
90	A low phase noise 30-GHz frequency synthesizer with linear transconductance VCO and dual-injection-locked frequency divider. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2016</b> , 86, 365-376 <sup>1,2</sup>		4
89	Single Inductor-Multiple Output DPWM DC-DC Boost Converter with a High Efficiency and Small Area. <i>Energies</i> , <b>2018</b> , 11, 725	3.1	4
88	VHF/UHF broadband four-way power combiner/divider using 0° hybrid and impedance transformer based on transmission lines. <i>IET Microwaves, Antennas and Propagation</i> , <b>2017</b> , 11, 1748-1753	1.6	4
87	2.6 GHz GaN-HEMT Doherty power amplifier integrated circuit with 55.5% efficiency based on a compact load network <b>2017</b> ,		4
86	Design of a 100watt high-efficiency power amplifier for the 10-500MHz band <b>2009</b> ,		4
85	A high-frequency and high-power quasi-class-E amplifier design using a finite bias feed inductor. <i>Microwave and Optical Technology Letters</i> , <b>2007</b> , 49, 1114-1118	1.2	4
84	Applications of Auction and Mechanism Design in Edge Computing: A Survey. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2022</b> , 1-1	6.6	4
83	Dynamic Network Service Selection in IRS-Assisted Wireless Networks: A Game Theory Approach. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 5160-5165	6.8	4
82	GaN-HEMT asymmetric three-way Doherty power amplifier using GPD. <i>IET Microwaves, Antennas and Propagation</i> , <b>2018</b> , 12, 2115-2121	1.6	4

81	InGaP/GaAs HBT Broadband Power Amplifier IC with 54.3% Fractional Bandwidth Based on Cascode Structure <b>2019</b> ,		3
80	Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 4340-4343	4.3	3
79	A High-Efficiency and Wide-Input Range RF Energy Harvester Using Multiple Rectenna and Adaptive Matching. <i>Energies</i> , <b>2020</b> , 13, 1023	3.1	3
78	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> , <b>2018</b> , 11, 479	3.1	3
77	Joint Traffic Routing and Virtualized Security Function Activation in Wireless Multihop Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 9205-9219	6.8	3
76	Integrated CMOS RF transmitter with a single-ended power amplifier. <i>Microwave and Optical Technology Letters</i> , <b>2013</b> , 55, 205-210	1.2	3
75	Wireless Information and Power Transfer: Spectral Efficiency Optimization for Asymmetric Full-Duplex Relay Systems <b>2017</b> ,		3
74	Transmission Power and Antenna Allocation for Energy-Efficient RF Energy Harvesting Networks with Massive MIMO. <i>Energies</i> , <b>2017</b> , 10, 802	3.1	3
73	Efficiency enhanced CMOS digitally controlled dynamic bias switching power amplifier for LTE. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 2315-2321	1.2	3
72	CMOS dynamic supply switching power amplifier for LTE applications <b>2015</b> ,		3
71	Analysis and design of compact third-order intermodulation generation circuits. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 2137-2140	1.2	3
70	A 5W ultra-broadband power amplifier using silicon LDMOSFETs <b>2009</b> ,		3
69	Performance Analysis of Power Amplifier Nonlinearity on Multi-Tone SWIPT. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 765-769	5.9	3
68	Robust Design of 3D-Printed 60 GHz Double-Ridged TEM Horn Antenna. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1582	2.6	3
67	A broadband circularly polarized magneto-electric dipole array antenna for 5G millimeter-wave applications. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 023503	3.4	3
66	Improper Gaussian Signaling for D2D Communication Coexisting MISO Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 5186-5198	9.6	3
65	Compact and High Gain 4-Element Circularly Polarized Microstrip Patch Antenna Array for Next Generation Small Satellite. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8869	2.6	3
64	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> , <b>2017</b> , 25, 1731-1741	2.6	2

63	Bandwidth-Enhanced Circularly Polarized Crescent-Shaped Slot Antenna via Circular-Patch Loading. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1117	2.6	2
62	A design of wide input range triple-mode active rectifier with peak efficiency of 94.2 % and maximum output power of 8 W for wireless power receiver in 0.18 $\mu$ m BCD. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2016</b> , 86, 255-265	1.2	2
61	A Design of Small Area, 0.95 mW, 612?1152 MHz Open Loop Injection-Locked Frequency Multiplier for IoT Sensor Applications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	2
60	A High Noise Immunity, 28 $\mu$ m 6-Channel Finger Touch Sensing IC Using OFDM and Frequency Translation Technique. <i>Sensors</i> , <b>2018</b> , 18,	3.8	2
59	A 3-D Meandered Probe-Fed Dual-Band Circularly Polarized Dielectric Resonator Antenna. <i>Sensors</i> , <b>2018</b> , 18,	3.8	2
58	A design of a 5.6GHz frequency synthesizer with switched bias LIT VCO and low noise on-chip LDO regulator for 5G applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2019</b> , 47, 1856-1868	2	2
57	Circularly polarized CHANEL-logo antenna for GNSS applications. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2017</b> , 31, 1434-1443	1.3	2
56	CMOS DSB Transmitter With Low TX Noise for UHF RFID Reader System-on-Chip. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> ,	4.1	2
55	A load network for Doherty amplifiers using an optimized impedance transformer. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 2502-2504	1.2	2
54	Low phase noise S-band PLL frequency synthesizer using DDS and offset mixing techniques <b>2009</b> ,	2	2
53	A Programmable Binary Metasurface for Wireless Power Transfer Application <b>2020</b> ,	2	2
52	Learning to Schedule Joint Radar-Communication With Deep Multi-Agent Reinforcement Learning. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 71, 406-422	6.8	2
51	Doherty Power Amplifier With Extended High-Efficiency Range Based on the Utilization of Multiple Output Power Back-Off Parameters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2022</b> , 1-1	4.1	2
50	Design and Implementation of 5.8 GHz RF Wireless Power Transfer System. <i>IEEE Access</i> , <b>2021</b> , 9, 168520-168534	3.5	2
49	Beam Avoidance for Human Safety in Radiative Wireless Power Transfer. <i>IEEE Access</i> , <b>2020</b> , 8, 217510-217525	1.7	2
48	A Hierarchical Game Model for OFDM Integrated Radar and Communication Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 5077-5082	6.8	2
47	Dual-Band RF Wireless Power Transfer System with a Shared-Aperture Dual-Band Tx Array Antenna. <i>Energies</i> , <b>2021</b> , 14, 3803	3.1	2
46	A design of power managements IC with peak efficiency of 92.8 % step-up converter and peak efficiency of 93.8 % step-down converter for power transmitting unit of A4WP applications in 0.18 $\mu$ m BCD. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2016</b> , 88, 115-125	1.2	2

45	DSS modulator using the SIDO dc/dc converter for the CMOS RF PA integrated circuit. <i>IET Microwaves, Antennas and Propagation</i> , <b>2019</b> , 13, 597-601	1.6	2
44	Backscatter Based Cooperative Transmission in Wireless-Powered Heterogeneous Networks <b>2019</b> ,		2
43	A 15-W Triple-Mode Wireless Power Transmitting Unit With High System Efficiency Using Integrated Power Amplifier and DCDC Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 9574-9585	8.9	2
42	Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks <b>2018</b> ,		2
41	A 10- and 12-Bit Multi-Channel Hybrid Type Successive Approximation Register Analog-to-Digital Converter for Wireless Power Transfer System. <i>Energies</i> , <b>2018</b> , 11, 2673	3.1	2
40	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> , <b>2018</b> , 7, 297	2.6	2
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. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 69, 4315-4325 <sup>2</sup>	4.1	2
38	Analysis and Experiment on Multi-Antenna-to-Multi-Antenna RF Wireless Power Transfer. <i>IEEE Access</i> , <b>2021</b> , 9, 2018-2031	3.5	2
37	Non-Technical Loss Detection Using Deep Reinforcement Learning for Feature Cost Efficiency and Imbalanced Dataset. <i>IEEE Access</i> , <b>2022</b> , 10, 27084-27095	3.5	2
36	Latency Minimization in Covert Communication-Enabled Federated Learning Network. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 13447-13452	6.8	2
35	Guest Editorial Wireless Transmission of Information and Power Part II. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2019</b> , 37, 249-252	14.2	1
34	Dynamic Game and Pricing for Data Sponsored 5G Systems With Memory Effect. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 750-765	14.2	1
33	Scaled GaN-HEMT Large-Signal Model Based on EM Simulation. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 632	2.6	1
32	A CMOS envelope tracking power amplifier for 4G LTE mobile terminal applications <b>2014</b> ,		1
31	Doherty power amplifier using a compact load network for bandwidth extension <b>2013</b> ,		1
30	High-Efficiency Class-F Amplifier Design Using Defected Ground Structure <b>2009</b> ,		1
29	<b>2021</b> ,		1
28	A Low-Power 12-Bit 20 MS/s Asynchronously Controlled SAR ADC for WAVE ITS Sensor Based Applications. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1

27	Jamming Mitigation in JRC Systems via Deep Reinforcement Learning and Backscatter-supported Intelligent Deception Strategy <b>2021</b> ,		1
26	On-Off Arbitrary Beam Synthesis and Non-Interactive Beam Management for Phased Antenna Array Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 5959-5973	6.8	1
25	Reconfigurable Heterogeneous Energy Harvester with Adaptive Mode Switching <b>2019</b> ,		1
24	Striving for Efficiency: A 475-kHz High-Efficiency Two-Stage Class-E Power Amplifier. <i>IEEE Microwave Magazine</i> , <b>2019</b> , 20, 85-90	1.2	1
23	Heterogeneously Reconfigurable Energy Harvester: An Algorithm for Optimal Reconfiguration. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 1437-1452	10.7	1
22	A Design of Adaptive Control and Communication Protocol for SWIPT System in 180 nm CMOS Process for Sensor Applications. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
21	Adaptive Task Offloading in Coded Edge Computing: A Deep Reinforcement Learning Approach. <i>IEEE Communications Letters</i> , <b>2021</b> , 1-1	3.8	1
20	An Antenna Proximity Sensor for Mobile Terminals Using Reflection Coefficient. <i>Sensors</i> , <b>2018</b> , 18,	3.8	1
19	Multi-Dimensional Sparse-Coded Ambient Backscatter Communication for Massive IoT Networks. <i>Energies</i> , <b>2018</b> , 11, 2855	3.1	1
18	A 77-dB Dynamic-Range Analog Front-End for Fine-Dust Detection Systems with Dual-Mode Ultra-Low Noise TIA. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
17	Protecting Multi-function Wireless Systems From Jammers with Backscatter Assistance: An Intelligent Strategy. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	1
16	Reconfigurable Intelligent Surface-Aided Joint Radar and Covert Communications: Fundamentals, Optimization, and Challenges. <i>IEEE Vehicular Technology Magazine</i> , <b>2022</b> , 2-12	9.9	1
15	A 1.248/0.918 Gb/s low-power transmitter for MIPI M-PHY with 2-step impedance calibration loop in 0.11 $\mu$ m CMOS. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2015</b> , 83, 129-142	1.2	0
14	A Low-Profile Ferrite Dipole VHF Antenna for Integrated Mast Applications. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1642	2.6	0
13	A 39.5-dB SNR, 300-Hz Frame-Rate, 56 $\times$ 70-Channel Read-Out IC for Electromagnetic Resonance Touch Panels. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 5001-5011	8.9	0
12	Mellin Transform Approach for the Capacitance Computation of Asymmetric Coplanar Striplines. <i>Electromagnetics</i> , <b>2014</b> , 34, 617-624	0.8	0
11	Dynamics in Coded Edge Computing for IoT: A Fractional Evolutionary Game Approach. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	0
10	Access Management in Joint Sensing and Communication Systems: Efficiency versus Fairness. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	0

9	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. <i>Sensors</i> , <b>2022</b> , 22, 4039	3.8	0
8	Cognitive Radio Networks with Ambient Backscatter Communication <b>2020</b> , 125-156		
7	Optimal Transmission Policy in Decoupled RF Energy Harvesting Networks. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2018</b> , E101.A, 516-520	0.4	
6	Linearization of a 3.7 GHz multi-carrier GaN HEMT Doherty power amplifier using digital predistortion method. <i>Microwave and Optical Technology Letters</i> , <b>2010</b> , 52, 634-638	1.2	
5	A high-power Cartesian feedback transmitter including a compact inverted Doherty amplifier. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 944-946	1.2	
4	Neural Episodic Control-Based Adaptive Modulation and Coding Scheme for Inter-Satellite Communication Link. <i>IEEE Access</i> , <b>2021</b> , 9, 159175-159186	3.5	
3	Drone-Based Sensor Information Gathering System with Beam-Rotation Forward-Scattering Communications and Wireless Power Transfer. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	
2	Unified Design of Wireless Information and Power Transmission <b>2018</b> , 39-59		
1	When Optimization Meets Machine Learning: The Case of IRS-Assisted Wireless Networks. <i>IEEE Network</i> , <b>2022</b> , 1-9	11.4	