## Wireless Networks With RF Energy Harvesting: A Conte

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**Citation Report** 

#	Article	IF	CITATIONS
1	Wireless energy harvesting communications: Beamforming and stochastic optimization. , 2014, , .		2
2	Energy-Efficient Design in RF Energy Harvesting Relay Networks. , 2014, , .		0
3	Multi-Objective Optimization of Wireless Information and Power Transfer in Multiuser OFDMA Systems. , 2014, , .		0
4	Outage Analysis of Spectrum Sharing Energy Harvesting Cognitive Relays in Nakagami-m Channels. , 2014, , .		0
5	On Stochastic Geometry Analysis and Optimization of Wireless-Powered Cellular Networks. , 2014, , .		0
6	Interference-Assisted Wireless Energy Harvesting in Cognitive Relay Network with Multiple Primary Transceivers. , 2014, , .		0
7	Performance of Wireless-Powered Sensor Transmission Considering Energy Cost of Sensing. , 2014, , .		1
8	On Stochastic Geometry Analysis and Optimization of Wireless-Powered Cellular Networks. , 2015, , .		9
9	Performance analysis of multi-relay SWIPT systems with random placement of nodes. , 2015, , .		0
10	Performance tradeoff in two-zone based wireless powered communication networks. , 2015, , .		0
11	A 910MHz/2.4GHz easily tunable dual-band antenna for power harvesting and sensor networking applications. , 2015, , .		1
12	Interference-Assisted Wireless Energy Harvesting in Cognitive Relay Network with Multiple Primary Transceivers. , 2015, , .		31
13	Performance of Wireless-Powered Sensor Transmission Considering Energy Cost of Sensing. , 2015, , .		3
14	Multi-Objective Optimization of Wireless Information and Power Transfer in Multiuser OFDMA Systems. , 2015, , .		3
15	Energy-Efficient Design in RF Energy Harvesting Relay Networks. , 2015, , .		3
16	Outage Analysis of Spectrum Sharing Energy Harvesting Cognitive Relays in Nakagami-m Channels. , 2015, , .		8
17	A Novel Wireless Power Transfer-Based Weighed Clustering Cooperative Spectrum Sensing Method for Cognitive Sensor Networks. Sensors, 2015, 15, 27760-27782.	2.1	5
18	Analysis of <inline-formula> <tex-math notation="LaTeX"&gt;\$K\$</tex-math </inline-formula> -Tier Uplink Cellular Networks With Ambient RF Energy Harvesting. IEEE Journal on Selected Areas in Communications, 2015, 33, 2226-2238.	9.7	92

#	Article	IF	CITATIONS
19	Backscatter radio communication for wireless powered communication networks. , 2015, , .		38
20	User's deception mechanisms against jammers in wireless energy harvesting networks. , 2015, , .		Ο
21	Overview of MAC protocols for energy harvesting wireless sensor networks. , 2015, , .		15
22	Resource allocation in wireless networks with RF energy harvesting and transfer. IEEE Network, 2015, 29, 68-75.	4.9	81
23	Iterative optimization for max-min SINR in dense small-cell multiuser MISO SWIPT system. , 2015, , .		6
24	Optimized training design for multi-antenna wireless energy transfer in frequency-selective channel. , 2015, , .		5
25	Out-of-band radiation: Opportunities for antenna-based RF energy harvesting in wireless devices?. , 2015, , .		1
26	Throughput analysis of wireless-powered communications with energy beamforming and adaptive time switching. , 2015, , .		1
27	An efficient policy for D2D communications and energy harvesting in cognitive radios: Go Bayesian!. , 2015, , .		21
28	Roadmap towards beyond 4G: Key technologies and challenges for 5G. , 2015, , .		Ο
29	Optimized Training for Net Energy Maximization in Multi-Antenna Wireless Energy Transfer Over Frequency-Selective Channel. IEEE Transactions on Communications, 2015, 63, 2360-2373.	4.9	57
30	DC programming for power minimization in a multicell network with RF-powered relays. , 2015, , .		Ο
31	Subband PUEA Detection and Mitigation in OFDM-Based Cognitive Radio Networks. IEEE Transactions on Information Forensics and Security, 2015, 10, 2131-2142.	4.5	15
32	Wireless-Powered Relays in Cooperative Communications: Time-Switching Relaying Protocols and Throughput Analysis. IEEE Transactions on Communications, 2015, 63, 1607-1622.	4.9	247
33	Outage Probability of Ad Hoc Networks With Wireless Information and Power Transfer. IEEE Wireless Communications Letters, 2015, 4, 409-412.	3.2	33
34	Wireless charger networking for mobile devices: fundamentals, standards, and applications. IEEE Wireless Communications, 2015, 22, 126-135.	6.6	171
35	Enhancing wireless information and power transfer by exploiting multi-antenna techniques. , 2015, 53, 133-141.		181
36	A general utility optimization framework for energy-harvesting-based wireless communications. , 2015, 53, 79-85.		56

	CITATION	Report	
#	Article	IF	Citations
37	Game theoretic modeling of jamming attack in wireless powered communication networks. , 2015, , .		13
38	Performance of Maximum Ratio Transmission in Ad Hoc Networks With SWIPT. IEEE Wireless Communications Letters, 2015, 4, 529-532.	3.2	20
39	Relay Selection in Wireless Powered Cooperative Networks With Energy Storage. IEEE Journal on Selected Areas in Communications, 2015, 33, 2596-2610.	9.7	110
40	On the feasibility of wireless energy transfer using massive antenna arrays in Rician channels. , 2015, , .		4
41	Energy efficiency optimization for multi-user MISO swipt systems. , 2015, , .		3
42	Dynamic Energy Trading for Energy Harvesting Communication Networks: A Stochastic Energy Trading Game. IEEE Journal on Selected Areas in Communications, 2015, 33, 2718-2734.	9.7	51
43	On the Deployment of Energy Sources in Wireless-Powered Cellular Networks. IEEE Transactions on Communications, 2015, 63, 3391-3404.	4.9	32
44	Energy Harvesting Noncoherent Cooperative Communications. IEEE Transactions on Wireless Communications, 2015, 14, 6722-6737.	6.1	33
45	Block-wise time-switching energy harvesting protocol for wireless-powered AF relays. , 2015, , .		8
46	Full-duplex wireless-powered communication with antenna pair selection. , 2015, , .		0
47	Sum throughput maximization for heterogeneous multicell networks with RF-powered relays. , 2015, , .		4
48	Noncoherent Relaying in Energy Harvesting Communication Systems. IEEE Transactions on Wireless Communications, 2015, 14, 6940-6954.	6.1	36
49	Applications of Repeated Games in Wireless Networks: A Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 2102-2135.	24.8	45
50	Distributed and Optimal Resource Allocation for Power Beacon-Assisted Wireless-Powered Communications. IEEE Transactions on Communications, 2015, 63, 3569-3583.	4.9	74
51	Performance Analysis of Ambient RF Energy Harvesting with Repulsive Point Process Modeling. IEEE Transactions on Wireless Communications, 2015, 14, 5402-5416.	6.1	65
52	Smart home gateway system over Bluetooth low energy with wireless energy transfer capability. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	1.5	40
53	Optimal Beamforming Designs for Wireless Information and Power Transfer in MISO Interference Channels. IEEE Transactions on Wireless Communications, 2015, 14, 4810-4821.	6.1	82
54	Cooperative spectrum sensing for RF-energy harvesting cognitive Radio networks. , 2015, , .		5

#	Article	IF	CITATIONS
55	From MANET to people-centric networking: Milestones and open research challenges. Computer Communications, 2015, 71, 1-21.	3.1	61
56	Energy efficiency optimization with energy harvesting using harvest-use approach. , 2015, , .		12
57	Energy Harvesting Networks With Energy Cooperation: Procrastinating Policies. IEEE Transactions on Communications, 2015, 63, 4525-4538.	4.9	45
58	A Fair Resource Allocation Algorithm for Data and Energy Integrated Communication Networks. Mobile Information Systems, 2016, 2016, 1-10.	0.4	6
59	Channel Selection Policy in Multi-SU and Multi-PU Cognitive Radio Networks with Energy Harvesting for Internet of Everything. Mobile Information Systems, 2016, 2016, 1-12.	0.4	6
60	Analysis of Single-Server Queue with Phase-Type Service and Energy Harvesting. Mathematical Problems in Engineering, 2016, 2016, 1-16.	0.6	6
61	Throughput Characterization for Cooperative Wireless Information Transmission with RF Energy Harvesting-Based Relay. Mobile Information Systems, 2016, 2016, 1-11.	0.4	2
62	Characterization of Energy Availability in RF Energy Harvesting Networks. Mathematical Problems in Engineering, 2016, 2016, 1-9.	0.6	6
63	Operating Wireless Sensor Nodes without Energy Storage: Experimental Results with Transient Computing. Electronics (Switzerland), 2016, 5, 89.	1.8	4
64	Multichannel-Sensing Scheduling and Transmission-Energy Optimizing in Cognitive Radio Networks with Energy Harvesting. Sensors, 2016, 16, 461.	2.1	5
65	Energy Borrowing: An Efficient Way to Bridge Energy Harvesting and Power Grid in Wireless Communications. , 2016, , .		5
66	Userâ€Interactive and Wirelessâ€Communicating RF Textiles. Advanced Materials Technologies, 2016, 1, 1600032.	3.0	6
67	Power allocation, relay selection and energy cooperation strategies in energy harvesting cooperative wireless networks. Wireless Communications and Mobile Computing, 2016, 16, 2065-2082.	0.8	21
68	A wideband rectenna for 2.4 GHz-band RF energy harvesting. , 2016, , .		17
69	Performance of Analog Network Coding Based Two-Way EH Relay with Beamforming. , 2016, , .		4
70	User cooperation for enhanced throughput fairness in wireless powered communication networks. , 2016, , .		6
71	On the performance of wireless energy harvesting networks in a Boolean-Poisson model. , 2016, , .		2
72	Performance Analysis of Wireless Powered MIMO Communications Using Stochastic Geometry. , 2016, ,		1

#	Article	IF	CITATIONS
73	Performance analysis of K-tier cellular networks with time-switching energy harvesting. , 2016, , .		5
74	Secrecy Rate Beamforming for Multi-Cell SWIPT Networks. , 2016, , .		3
75	Incremental Accumulate-then-Forward Relaying in Wireless Energy Harvesting Cooperative Networks. , 2016, , .		13
76	An Adaptive MAC Protocol for RF Energy Harvesting Wireless Sensor Networks. , 2016, , .		29
77	On the Adaptive Transmission Scheme in Buffer-Aided Wireless Powered Relay Network. , 2016, , .		12
78	Design and analysis of an RF rectifying circuit upon integration with monopole and Fractal antennas. , 2016, , .		0
79	Resource Allocation in Wideband Cognitive Radio with SWIPT: Max-Min Fairness Guarantees. , 2016, , .		21
80	Robust Secrecy Beamforming for MIMO SWIPT with Probabilistic Constraints. , 2016, , .		4
81	Robust Source-Relay Beamforming for Full-Duplex Relay Networks with Energy Harvesting. , 2016, , .		9
82	Group Cooperation and Resource Allocation in Wireless Powered Communication Networks. , 2016, , .		0
83	Dedicated RF Power Transfer for Wirelessly-Powered Wearable Medical Sensors. , 2016, , .		1
84	Assessing the Cost of RF-Power Harvesting Nodes in Wireless Sensor Networks. , 2016, , .		11
85	Connectivity Analysis in Wireless-Powered Sensor Networks with Battery-Less Devices. , 2016, , .		7
86	Secrecy Outage Minimization for Wireless Powered Communication Networks with an Energy Harvesting Jammer. , 2016, , .		10
87	Downlink Performance Analysis of Cellular-Based IoT Network with Energy Harvesting Receivers. , 2016, , .		15
88	SWIPT techniques for multiuser MIMO broadcast systems. , 2016, , .		5
89	RF energy harvesting based D2D communication in downlink cellular network with repulsion point process modeling. , 2016, , .		5
90	Time Reversal SWIPT Networks with an Active Eavesdropper: SER-Energy Region Analysis. , 2016, , .		7

#	Article	IF	CITATIONS
91	Measurement and Analysis of Available Ambient Radio Frequency Energy for Wireless Energy Harvesting. , 2016, , .		12
92	On joint energy and information transfer in relay networks with an imperfect power amplifier. , 2016, , $\cdot$		4
93	On Optimal Charger Positioning in Clustered RF-power Harvesting Wireless Sensor Networks. , 2016, , .		6
94	Accumulate then forward: An opportunistic relaying protocol for wireless-powered cooperative communications. , 2016, , .		2
95	Performance evaluation of underlay cognitive radio networks over Nakagami-m fading channels with energy harvesting. , 2016, , .		16
96	Energy-efficient power allocation for simultaneous wireless information-and-energy multicast in cognitive OFDM systems. , 2016, , .		1
97	Analysis of energy harvesting efficiency for power supply of WBAN nodes in heterogeneous scenarios. , 2016, , .		3
98	Towards secure communication via a wireless-powered full-duplex jammer. , 2016, , .		1
99	Optimal Radio Frequency Energy Harvesting With Limited Energy Arrival Knowledge. IEEE Journal on Selected Areas in Communications, 2016, 34, 3528-3539.	9.7	15
100	Optimization of multiuser multichannel cognitive radio networks with wireless information and power transfer. , 2016, , .		2
101	Energy outage and achievable throughput in RF energy harvesting cognitive radio networks. , 2016, , .		1
102	Opportunistic sensing for joint energy harvesting and channel access. , 2016, , .		3
103	Long-term throughput optimization in WPCN with battery-powered devices. , 2016, , .		2
104	Resource allocation in wireless virtualized networks with energy harvesting. , 2016, , .		0
105	Joint power and time allocation for wireless powered cognitive radio multiple access networks with or without SIC. , 2016, , .		1
106	Detection threshold optimization for RF-powered full-duplex cognitive radio networks. , 2016, , .		3
107	A compact size and high efficiency CMOS-IPD rectenna using 2.5D wafer-level packing for a wireless power harvesting system. , 2016, , .		2
108	System With RF Power Delivery Capabilities for Active Safety Enhancement in Industrial Vehicles Using Interchangeable Implements. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3471-3483.	4.7	3

ARTICLE IF CITATIONS # Indoor Optical Wireless Power Transfer to Small Cells at Nighttime. Journal of Lightwave 109 2.7 60 Technology, 2016, 34, 3236-3258. Ultra-Dense Networks: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 2522-2545. 24.8 747 Security of Rechargeable Energy-Harvesting Transmitters in Wireless Networks. IEEE Wireless 111 3.2 31 Communications Letters, 2016, 5, 384-387. Energy Efficiency With Proportional Rate Fairness in Multirelay OFDM Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1431-1447. Beamforming for total energy maximization in MISO networks., 2016,,. 113 0 A Survey of Resource Management Toward 5G Radio Access Networks. IEEE Communications Surveys and Tutorials, 2016, 18, 1656-1686. 24.8 Wireless-Powered Cooperative Communications: Power-Splitting Relaying With Energy Accumulation. 115 9.7 55 IEEE Journal on Selected Areas in Communications, 2016, 34, 969-982. Bidirectional Wireless Information and Power Transfer With a Helping Relay. IEEE Communications 2.5 54 Letters, 2016, 20, 862-865. A Survey of Energy-Efficient Techniques for 5G Networks and Challenges Ahead. IEEE Journal on 117 9.7 588 Selected Areas in Communications, 2016, 34, 697-709. Wireless Information and Power Transfer: Rate-Energy Tradeoff for Equi-Probable Arbitrary-Shaped 6.1 Discrete Inputs. IEEE Transactions on Wireless Communications, 2016, 15, 4393-4407 Throughput of Wireless-Powered Relaying Systems with Buffer-Aided Hybrid Relay. IEEE Transactions 119 6.1 26 on Wireless Communications, 2016, , 1-1. Adaptively Directional Wireless Power Transfer forÂLarge-Scale Sensor Networks. IEEE Journal on Selected Áreas in Communications, 2016, 34, 1785-1800. Wireless powered communication networks: an overview. IEEE Wireless Communications, 2016, 23, 121 6.6 435 10-18. On Code Design for Joint Energy and Information Transfer. IEEE Transactions on Communications, 2016, 64, 2677-2688. Effects of Practical Rechargeability Constraints on Perpetual RF Harvesting Sensor Network 123 20 2.6 Operation. IEEE Access, 2016, 4, 750-765. Self-Sustainable Communications With RF Energy Harvesting: Ginibre Point Process Modeling and 124 Analysis. IEEE Journal on Selected Areas in Communications, 2016, 34, 1518-1535. On feasibility of 5G-grade dedicated RF charging technology for wireless-powered wearables. IEEE 125 6.6 51 Wireless Communications, 2016, 23, 28-37. Ambient RF energy harvesting in ultra-dense small cell networks: performance and trade-offs. IEEE 6.6 Wireless Communications, 2016, 23, 38-45.

#	Article	IF	CITATIONS
127	Delay-Aware Wireless Powered Communication Networks—Energy Balancing and Optimization. IEEE Transactions on Wireless Communications, 2016, 15, 5272-5286.	6.1	25
128	Energy Harvesting and Wireless Transfer in Sensor Network Applications. ACM Transactions on Sensor Networks, 2016, 12, 1-40.	2.3	104
129	Regenerative relaying in energy harvesting cognitive radio networks. , 2016, , .		2
130	Joint Transceiver Design Algorithms for Multiuser MISO Relay Systems with Energy Harvesting. IEEE Transactions on Communications, 2016, , 1-1.	4.9	22
131	On signaling power: Communications over wireless energy. , 2016, , .		8
132	Joint Optimization of Power and Data Transfer in Multiuser MIMO Systems. IEEE Transactions on Signal Processing, 2016, , 1-1.	3.2	40
133	On optimal policies in full-duplex wireless powered communication networks. , 2016, , .		13
134	Throughput analysis of two-way relay networks with wireless energy harvesting capabilities. Ad Hoc Networks, 2016, 53, 123-131.	3.4	29
135	Optimal scheduling and power allocation for wireless powered two-way relaying systems. , 2016, , .		2
136	Transmission schemes and performance analysis for time-switching energy harvesting receivers. , 2016, , $\cdot$		7
137	Outage performance analysis of relay selection in SWIPT systems. , 2016, , .		9
138	Long-term throughput optimization in WPCN with battery-powered devices. , 2016, , .		1
139	Wireless RF-based energy harvesting for two-way relaying systems. , 2016, , .		14
140	On the Scalability of Energy in Wireless RF Powered Internet of Things. IEEE Communications Letters, 2016, 20, 2554-2557.	2.5	8
141	Energy efficient antenna selection for a MIMO relay using RF energy harvesting. , 2016, , .		3
142	Resource Allocation for a Full-Duplex Wireless-Powered Communication Network With Imperfect Self-Interference Cancelation. IEEE Communications Letters, 2016, 20, 2482-2485.	2.5	17
143	Distributed multi-relay selection in wireless-powered cooperative networks with energy accumulation. , 2016, , .		6
144	Compensating Spectral Efficiency Loss of Wireless RF Energy Transfer With Analog Joint Source Channel Coding Compression. IEEE Sensors Journal, 2016, 16, 6458-6469.	2.4	3

#	Article	IF	CITATIONS
145	Timing and carrier synchronization in wireless communication systems: a survey and classification of research in the last 5 years. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	1.5	64
146	An online algorithm for throughput maximization of wireless powered communication networks. , 2016, , .		2
147	A literature survey of wireless power transfer. , 2016, , .		12
148	Distributed wireless energy scheduling for wireless powered sensor networks. , 2016, , .		10
149	Accumulate and Jam: Towards Secure Communication via A Wireless-Powered Full-Duplex Jammer. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1538-1550.	7.3	66
150	Socially-aware E-Box deployment schemes for joint data forwarding and energy harvesting. , 2016, , .		2
151	SWIPT with practical modulation and RF energy harvesting sensitivity. , 2016, , .		35
152	New SWIPT Using PAPR: How It Works. IEEE Wireless Communications Letters, 2016, 5, 672-675.	3.2	62
153	Joint data and power transfer optimization for energy harvesting wireless networks. , 2016, , .		10
154	Wireless Powered Cooperative Jamming for Secrecy Multi-AF Relaying Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7971-7984.	6.1	68
155	On Downlink Resource Allocation for SWIPT in Small Cells in a Two-Tier HetNet. IEEE Transactions on Wireless Communications, 2016, 15, 7709-7724.	6.1	37
156	Resource allocation in wireless powered relay networks through a nash bargaining game. , 2016, , .		5
157	Beamformer design for wireless energy transfer with fairness. , 2016, , .		19
158	Distributed Charging Control in Broadband Wireless Power Transfer Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 3380-3393.	9.7	32
159	Quadrature Amplitude Modulation Division for Multiuser MISO Broadcast Channels. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1551-1566.	7.3	12
160	RF energy harvesting in DF relay networks in the presence of an interfering signal. , 2016, , .		19
161	A multi-relay selection scheme for time switching energy harvesting two-way relaying systems. , 2016, , ·		7
162	Modeling and Analysis of Wireless Power Transfer in Heterogeneous Cellular Networks. IEEE Transactions on Communications, 2016, 64, 5290-5303.	4.9	46

#	Article	IF	CITATIONS
163	Dynamic Spectrum Allocation for Energy Harvesting-Based Underlaying D2D Communication. , 2016, , .		10
164	Information Processing and Wireless Energy Harvesting in Two-Way Amplify-and-Forward Relay Networks. , 2016, , .		21
165	Multipair Two-Way Relay Network With Harvest-Then-Transmit Users: Resolving Pairwise Uplink-Downlink Coupling. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1506-1521.	7.3	24
166	Joint Routing and Links Scheduling in Two-Tier Multi-Hop RF-Energy Harvesting Networks. IEEE Communications Letters, 2016, 20, 1864-1867.	2.5	12
167	A review of acoustic power transfer for bio-medical implants. Smart Materials and Structures, 2016, 25, 123001.	1.8	141
168	Secure Beamforming Design for SWIPT in MISO Broadcast Channel With Confidential Messages and External Eavesdroppers. IEEE Transactions on Wireless Communications, 2016, 15, 7807-7819.	6.1	55
169	Time-switching based in-band full duplex wireless powered two-way relay. , 2016, , .		13
170	Energy signal design and decoding procedure for full-duplex two-way wireless powered relay. , 2016, ,		4
171	Joint Optimization of Energy Harvesting and Detection Threshold for Energy Harvesting Cognitive Radio Networks. IEEE Access, 2016, 4, 7212-7222.	2.6	25
172	Smart decision making policy for faster harvesting from ambient RF sources in wireless sensor nodes. , 2016, , .		5
173	Exact Performance Analysis of Ambient RF Energy Harvesting Wireless Sensor Networks With Ginibre Point Process. IEEE Journal on Selected Areas in Communications, 2016, 34, 3769-3784.	9.7	31
174	Energy-Efficient Power Allocation in Cognitive Radio Systems With Imperfect Spectrum Sensing. IEEE Journal on Selected Areas in Communications, 2016, 34, 3466-3481.	9.7	43
175	Battery-Powered Devices in WPCNs. IEEE Transactions on Communications, 2016, , 1-1.	4.9	29
176	Distributed energy beamforming with one-bit feedback. , 2016, , .		0
177	Distributed energy beamforming with one-bit feedback. , 2016, , .		5
178	Joint optimization of energy harvesting and detection threshold for energy harvesting cognitive radio networks. , 2016, , .		1
179	Wireless energy harvesting massive MIMO relays. , 2016, , .		1
180	Hybrid backscatter communication for wireless powered communication networks. , 2016, , .		6

#	Article	IF	Citations
181	Store-then-cooperate: Energy harvesting scheme in cooperative relay networks. , 2016, , .		5
182	Trade-offs in analog sensing and communication in RF energy harvesting wireless sensor networks. , 2016, , .		3
183	Double Side Signal Splitting SWIPT for Downlink CoMP Transmissions With Capacity Limited Backhaul. IEEE Communications Letters, 2016, 20, 2438-2441.	2.5	5
184	On energy cooperation in energy harvesting underlay cognitive radio network. , 2016, , .		5
185	Energy-efficient and distributed data-aware clustering protocol for the Internet-of-Things. , 2016, , .		3
186	K-tier heterogeneous cellular networks with wireless power transfer. , 2016, , .		7
187	Review on micro-energy harvesting technologies. , 2016, , .		9
188	A stochastic geometry analysis of RF energy harvesting based D2D communication in downlink cellular networks. , 2016, , .		5
189	Energy harvesting and information processing in twoâ€way multiplicative relay networks. Electronics Letters, 2016, 52, 751-753.	0.5	40
190	Physical Layer Security With RF Energy Harvesting in AF Multi-Antenna Relaying Networks. IEEE Transactions on Communications, 2016, 64, 3025-3038.	4.9	111
191	SWIPT in 3-D Bipolar Ad Hoc Networks With Sectorized Antennas. IEEE Communications Letters, 2016, 20, 1267-1270.	2.5	10
192	Simultaneous Wireless Information and Power Transfer in \$K\$ -Tier Heterogeneous Cellular Networks. IEEE Transactions on Wireless Communications, 2016, 15, 5804-5818.	6.1	57
193	Path-Following Algorithms for Beamforming and Signal Splitting in RF Energy Harvesting Networks. IEEE Communications Letters, 2016, 20, 1687-1690.	2.5	16
194	Lower limits of DC-DC power conversion in circuit integrated Buck Converters and 0.50µm CMOS 1.65V/250mA buck converter design. , 2016, , .		0
195	Energy efficient relay networks with wireless power transfer from a multiâ€antenna base station. Transactions on Emerging Telecommunications Technologies, 2016, 27, 533-543.	2.6	8
196	Mobile Energy Sharing Networks: Performance Analysis and Optimization. IEEE Transactions on Vehicular Technology, 2016, 65, 3519-3535.	3.9	25
197	Green Wireless Power Transfer Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1740-1756.	9.7	17
198	On the Feasibility of Wireless Energy Transfer Using Massive Antenna Arrays. IEEE Transactions on Wireless Communications, 2016, 15, 3466-3480.	6.1	105

#	Article	IF	CITATIONS
199	New Formula for Conversion Efficiency of RF EH and Its Wireless Applications. IEEE Transactions on Vehicular Technology, 2016, 65, 9410-9414.	3.9	43
200	Stability Analysis of Slotted Aloha With Opportunistic RF Energy Harvesting. IEEE Journal on Selected Areas in Communications, 2016, 34, 1477-1490.	9.7	15
201	Wireless-powered communications with two-way information flow: Protocols and throughput regions. , 2016, , .		2
202	Energy-Assisted Information Detection for Simultaneous Wireless Information and Power Transfer: Performance Analysis and Case Studies. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 149-159.	1.6	12
203	Probability of Packet Loss in Energy Harvesting Nodes With Cognitive Radio Capabilities. IEEE Communications Letters, 2016, 20, 978-981.	2.5	14
204	Online Precoding for Energy Harvesting Transmitter With Finite-Alphabet Inputs and Statistical CSI. IEEE Transactions on Vehicular Technology, 2016, 65, 5287-5302.	3.9	15
205	Energy Harvesting Wireless Sensor Networks: Delay Analysis Considering Energy Costs of Sensing and Transmission. IEEE Transactions on Wireless Communications, 2016, , 1-1.	6.1	47
206	Diversity combining in biâ€directional relay networks with energy harvesting nodes. IET Communications, 2016, 10, 207-211.	1.5	7
207	Optimal Scheduling and Beamforming in Relay Networks With Energy Harvesting Constraints. IEEE Transactions on Wireless Communications, 2016, 15, 1226-1238.	6.1	31
208	Beamforming Design for OSTBC-Based AF-MIMO Two-Way Relay Networks With Simultaneous Wireless Information and Power Transfer. IEEE Transactions on Vehicular Technology, 2016, 65, 7285-7296.	3.9	14
209	Energy Harvesting Oriented Transceiver Design for 5G Networks. Studies in Systems, Decision and Control, 2016, , 67-95.	0.8	4
210	Distributed Power Control in Interference Channels With QoS Constraints and RF Energy Harvesting: A Game-Theoretic Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 10063-10069.	3.9	21
211	Downlink Hybrid Information and Energy Transfer With Massive MIMO. IEEE Transactions on Wireless Communications, 2016, 15, 1309-1322.	6.1	68
212	Secure D2D Communication in Large-Scale Cognitive Cellular Networks: A Wireless Power Transfer Model. IEEE Transactions on Communications, 2016, 64, 329-342.	4.9	183
213	Placement Optimization of Energy and Information Access Points in Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2016, 15, 2351-2364.	6.1	98
214	Wireless Charging Technologies: Fundamentals, Standards, and Network Applications. IEEE Communications Surveys and Tutorials, 2016, 18, 1413-1452.	24.8	745
215	Throughput Maximization for Multiuser MIMO Wireless Powered Communication Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 5743-5748.	3.9	56
216	Stochastic Optimal Control for Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2016, 15, 686-698.	6.1	50

#	Article	IF	CITATIONS
217	Secure Communication With a Wireless-Powered Friendly Jammer. IEEE Transactions on Wireless Communications, 2016, 15, 401-415.	6.1	117
218	Performance Analysis of Relay Selection for Cooperative Relays Based on Wireless Power Transfer With Finite Energy Storage. IEEE Transactions on Vehicular Technology, 2016, 65, 5110-5121.	3.9	58
219	Advances in Energy Harvesting Communications: Past, Present, and Future Challenges. IEEE Communications Surveys and Tutorials, 2016, 18, 1384-1412.	24.8	453
220	Joint Resource Optimization for Multicell Networks With Wireless Energy Harvesting Relays. IEEE Transactions on Vehicular Technology, 2016, 65, 6168-6183.	3.9	101
221	Optimal Energy Management Policy of Mobile Energy Gateway. IEEE Transactions on Vehicular Technology, 2016, 65, 3685-3699.	3.9	168
222	Tag-based cooperative data gathering and energy recharging in wide area RFID sensor networks. Ad Hoc Networks, 2016, 36, 214-228.	3.4	21
223	Secure Communication via a Wireless Energy Harvesting Untrusted Relay. IEEE Transactions on Vehicular Technology, 2017, 66, 2199-2213.	3.9	109
224	Simultaneous Wireless Information and Power Transfer in Cooperative Relay Networks With Rateless Codes. IEEE Transactions on Vehicular Technology, 2017, 66, 2981-2996.	3.9	89
225	System-Level Analysis and Optimization of Cellular Networks With Simultaneous Wireless Information and Power Transfer: Stochastic Geometry Modeling. IEEE Transactions on Vehicular Technology, 2017, 66, 2251-2275.	3.9	71
226	Modeling and Performance Analysis of Wireless Networks With Ambient Backscatter Devices. IEEE Transactions on Communications, 2017, 65, 1797-1814.	4.9	162
227	Perspective Paper—Can AC Computing Be an Alternative for Wirelessly Powered IoT Devices?. IEEE Embedded Systems Letters, 2017, 9, 13-16.	1.3	23
228	Simultaneous Wireless Transfer of Power and Information in a Decode-and-Forward Two-Way Relaying Network. IEEE Transactions on Wireless Communications, 2017, 16, 1579-1592.	6.1	80
229	Proportional Fairness-Based Beamforming and Signal Splitting for MISO-SWIPT Systems. IEEE Communications Letters, 2017, 21, 1135-1138.	2.5	10
230	Wireless Powered Sensor Networks With Random Deployments. IEEE Wireless Communications Letters, 2017, 6, 218-221.	3.2	7
231	On the Optimization Model for Multi-Hop Information Transmission and Energy Transfer in TDMA-Based Wireless Sensor Networks. IEEE Communications Letters, 2017, 21, 1095-1098.	2.5	15
232	Online Power and Time Allocation in MIMO Uplink Transmissions Powered by RF Wireless Energy Transfer. IEEE Transactions on Vehicular Technology, 2017, 66, 6819-6830.	3.9	21
233	Basics of Wireless Energy Harvesting and Transfer. , 2016, , 3-43.		3
234	Performance Characterization of Machine-to-Machine Networks With Energy Harvesting and Social-Aware Relays. IEEE Access, 2017, 5, 13297-13307.	2.6	15

		ITATION REPORT	
#	Article	IF	Citations
235	Acoustic power delivery to pipeline monitoring wireless sensors. Ultrasonics, 2017, 77, 54-60.	2.1	32
236	Multi-Slot Spectrum Sensing Schedule and Transmitted Energy Allocation in Harvested Energy Powered Cognitive Radio Networks Under Secrecy Constraints. IEEE Sensors Journal, 2017, 17, 2231-2240.	2.4	9
237	Adaptive cognitive radio energy-harvesting scheme using sequential game approach. Eurasip Journal Wireless Communications and Networking, 2017, 2017, .	on 1.5	2
238	Robust Beamforming for Simultaneous Wireless Information and Power Transfer in MISO Interference Channels. Wireless Personal Communications, 2017, 92, 1545-1557.	1.8	3
239	Throughput analysis of energy harvesting MIMO relay systems over Nakagami-m fading channels. , 2 , .	:017,	6
240	A Novel Solar and Electromagnetic Energy Harvesting System With a 3-D Printed Package for Energy Efficient Internet-of-Things Wireless Sensors. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1831-1842.	2.9	140
241	Mobile Charging in Wireless-Powered Sensor Networks: Optimal Scheduling and Experimental Implementation. IEEE Transactions on Vehicular Technology, 2017, 66, 7400-7410.	3.9	81
242	Ultrareliable Short-Packet Communications With Wireless Energy Transfer. IEEE Signal Processing Letters, 2017, 24, 387-391.	2.1	57
243	Circuit Design for Wireless Energy Harvesting. , 0, , 44-85.		0
244	Sensor Networks with Wireless Energy Harvesting. , 0, , 291-337.		1
245	Cooperative Precoding for Wireless Energy Transfer and Secure Cognitive Radio Coexistence System IEEE Signal Processing Letters, 2017, 24, 540-544.	IS. 2.1	13
246	Communications and Signals Design for Wireless Power Transmission. IEEE Transactions on Communications, 2017, 65, 2264-2290.	4.9	353
247	Performance Analysis and Optimization for SWIPT Wireless Sensor Networks. IEEE Transactions on Communications, 2017, 65, 2291-2302.	4.9	105
248	Spectral and Energy Efficiencies in Full-Duplex Wireless Information and Power Transfer. IEEE Transactions on Communications, 2017, 65, 2220-2233.	4.9	97
249	Efficient edge analytics in Internet-of-Things (IoT). , 2017, , .		0
250	Performance analysis of the clustering-based multihop wireless energy harvesting sensor networks over symmetric and asymmetric fading channels. International Journal of Distributed Sensor Networks, 2017, 13, 155014771769384.	1.3	3
251	Energy-Efficient Sub-Carrier and Power Allocation in Cloud-Based Cellular Network With Ambient RF Energy Harvesting. IEEE Access, 2017, 5, 1340-1352.	2.6	32
252	Secured energy harvesting networks with multiple power-constrained information sources. , 2017, ,		1

#	Article	IF	CITATIONS
253	EC-CENTRIC: An Energy- and Context-Centric Perspective on IoT Systems and Protocol Design. IEEE Access, 2017, 5, 6894-6908.	2.6	23
254	Linear Precoder Design for SWIPT in MIMO Broadcasting Systems With Discrete Input Signals: Manifold Optimization Approach. IEEE Transactions on Communications, 2017, 65, 2877-2888.	4.9	17
255	On the Design of Dual Energy Harvesting Communication Links With Retransmission. IEEE Transactions on Wireless Communications, 2017, 16, 4079-4093.	6.1	13
256	Time allocation optimisation for multiâ€antenna wireless information and power transfer with training and feedback. IET Communications, 2017, 11, 414-420.	1.5	4
257	Throughput Maximization in Dual-Hop Wireless Powered Communication Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9304-9312.	3.9	35
258	Harvesting and Energy aware Adaptive Sampling Algorithm for guaranteeing self-sustainability in Wireless Sensor Networks. , 2017, , .		3
259	Cooperative Transmission in Cognitive and Energy Harvesting-Based D2D Networks. , 2017, , .		5
260	Energy-Efficient Resource Allocation in Cellular Network with Ambient RF Energy Harvesting. , 2017, , .		1
261	Performance of Energy-Harvesting Receivers with Batteries Having Internal Resistance. , 2017, , .		5
262	Peer-to-Peer Wireless Energy Transfer in Populations of Very Weak Mobile Nodes. , 2017, , .		6
263	Power Allocation in an RF Energy Harvesting DF Relay Network in the Presence of an Interferer. IEEE Access, 2017, 5, 7606-7618.	2.6	10
264	Wireless Energy Harvesting and Communications: Limits and Reliability. , 2017, , .		3
265	A survey on ambient energy sources and harvesting methods for structural health monitoring applications. Advances in Mechanical Engineering, 2017, 9, 168781401769621.	0.8	53
266	Optimal Power Splitting for Simultaneous Information Detection and Energy Harvesting. IEEE Signal Processing Letters, 2017, , 1-1.	2.1	8
267	Exploiting Direct Links in Multiuser Multirelay SWIPT Cooperative Networks With Opportunistic Scheduling. IEEE Transactions on Wireless Communications, 2017, 16, 5410-5427.	6.1	39
268	Joint transfer of energy and information in a two-hop relay channel. , 2017, , .		3
269	Performance analysis of cognitive two-way AF relaying systems with wireless energy harvesting over Nakagami-m fading channels. , 2017, , .		2
270	Exact BER Analysis of Selection Combining for Differential SWIPT Relaying Systems. IEEE Signal Processing Letters, 2017, 24, 1198-1202.	2.1	13

#	Article	IF	CITATIONS
271	Joint Antenna Selection and Spatial Switching for Energy Efficient MIMO SWIPT System. IEEE Transactions on Wireless Communications, 2017, 16, 4754-4769.	6.1	52
272	Near Optimal Power Splitting Protocol for Energy Harvesting Based Two Way Multiple Relay Systems. , 2017, , .		3
273	A Novel Receiver Design with Joint Coherent and Non-Coherent Processing. IEEE Transactions on Communications, 2017, , 1-1.	4.9	11
274	Energy-Arrival-Aware Detection Threshold in Wireless-Powered Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9201-9213.	3.9	20
275	Dilemma at RF Energy Harvesting Relay: Downlink Energy Relaying or Uplink Information Transfer?. IEEE Transactions on Wireless Communications, 2017, 16, 4939-4955.	6.1	47
276	Viability Bounds of M2M Communication Using Energy-Harvesting and Passive Wake-Up Radio. IEEE Access, 2017, 5, 27868-27878.	2.6	15
277	A 0.18 \$\$upmu\$\$ μ m CMOS voltage multiplier arrangement for RF energy harvesting. Analog Integrated Circuits and Signal Processing, 2017, 92, 343-353.	0.9	4
278	Joint Resource Allocation in SWIPT-Based Multiantenna Decode-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9192-9200.	3.9	47
279	Green Communication in Next Generation Cellular Networks: A Survey. IEEE Access, 2017, 5, 11727-11758.	2.6	199
280	Optimal Beamforming and Duration/Power Allocation for Cooperative PB-Enabled WPCN. , 2017, , .		1
281	Exploiting Interference for Energy Harvesting: A Survey, Research Issues, and Challenges. IEEE Access, 2017, 5, 10403-10421.	2.6	107
282	A time-splitting cooperative spectrum sharing amplify-and-forward relaying protocol with energy harvesting cognitive user. , 2017, , .		1
283	Distributed Power Control Schemes for In-Band Full-Duplex Energy Harvesting Wireless Networks. IEEE Transactions on Wireless Communications, 2017, 16, 5233-5243.	6.1	19
284	Rate-Energy Region of SWIPT for MIMO Broadcasting Under Nonlinear Energy Harvesting Model. IEEE Transactions on Wireless Communications, 2017, 16, 5147-5161.	6.1	186
285	Precoder Design for Simultaneous Wireless Information and Power Transfer with Finite-Alphabet Inputs. , 2017, , .		1
286	A brief history of radiative wireless power transfer. , 2017, , .		8
287	Beamforming Optimization for Full-Duplex Wireless-Powered MIMO Systems. IEEE Transactions on Communications, 2017, 65, 3750-3764.	4.9	30
288	Simultaneous Wireless Information and Power Transfer for Downlink Multi-User Massive Antenna-Array Systems. IEEE Transactions on Communications, 2017, 65, 4039-4048.	4.9	34

#	Article	IF	CITATIONS
289	Minimization of Transmission Completion Time in Wireless Powered Communication Networks. IEEE Internet of Things Journal, 2017, 4, 1671-1683.	5.5	58
291	Power-Availability-Aware Cell Association for Energy-Harvesting Small-Cell Base Stations. IEEE Transactions on Wireless Communications, 2017, 16, 2409-2422.	6.1	21
292	Modeling and Analysis of Wireless Sensor Networks With/Without Energy Harvesting Using Ginibre Point Processes. IEEE Transactions on Wireless Communications, 2017, 16, 3700-3713.	6.1	23
293	Group Cooperation With Optimal Resource Allocation in Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2017, 16, 3840-3853.	6.1	83
294	Wireless Powered Dual-Hop Multi-Antenna Relaying Systems: Impact of CSI and Antenna Correlation. IEEE Transactions on Wireless Communications, 2017, 16, 2505-2519.	6.1	26
295	Cooperative spectrum sharing with energy harvesting best secondary user selection and non-orthogonal multiple access. , 2017, , .		26
296	Energy Harvesting-Based D2D Communications in the Presence of Interference and Ambient RF Sources. IEEE Access, 2017, 5, 5224-5234.	2.6	26
297	Joint RRH selection and beamforming in distributed antenna systems with energy harvesting. , 2017, , .		2
298	Performance of Analog Network Coding Based Two-Way EH Relay With Beamforming. IEEE Transactions on Communications, 2017, 65, 1518-1535.	4.9	28
299	Robust AN-Aided Beamforming and Power Splitting Design for Secure MISO Cognitive Radio With SWIPT. IEEE Transactions on Wireless Communications, 2017, 16, 2450-2464.	6.1	203
300	Unified analysis of energy harvesting–based MIMO relay wireless systems over Nakagamiâ€ <i>m</i> fading channels. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3160.	2.6	5
301	Two-Plus-One Cognitive Cooperation Based on Energy Harvesting and Spatial Multiplexing. IEEE Transactions on Vehicular Technology, 2017, 66, 7589-7593.	3.9	7
302	End-to-End Throughput Maximization for Underlay Multi-Hop Cognitive Radio Networks With RF Energy Harvesting. IEEE Transactions on Wireless Communications, 2017, 16, 3561-3572.	6.1	131
303	A Survey on Multiple-Antenna Techniques for Physical Layer Security. IEEE Communications Surveys and Tutorials, 2017, 19, 1027-1053.	24.8	343
304	Joint Transceiver Designs for Full-Duplex \$K\$ -Pair MIMO Interference Channel With SWIPT. IEEE Transactions on Communications, 2017, 65, 890-905.	4.9	26
305	Optimal Power Control in Green Wireless Sensor Networks With Wireless Energy Harvesting, Wake-Up Radio and Transmission Control. IEEE Access, 2017, 5, 501-518.	2.6	43
306	Received Power-Based Channel Estimation for Energy Beamforming in Multiple-Antenna RF Energy Transfer System. IEEE Transactions on Signal Processing, 2017, 65, 1461-1476.	3.2	42
307	Three-Step Two-Way Decode and Forward Relay With Energy Harvesting. IEEE Communications Letters, 2017, 21, 857-860.	2.5	55

#	Article	IF	CITATIONS
308	Distributed Wireless Power Transfer With Energy Feedback. IEEE Transactions on Signal Processing, 2017, 65, 1685-1699.	3.2	61
309	Resource Allocation in Wireless Powered Relay Networks: A Bargaining Game Approach. IEEE Transactions on Vehicular Technology, 2017, 66, 6310-6323.	3.9	35
310	Cognitive Radio With Self-Power Recycling. IEEE Transactions on Vehicular Technology, 2017, 66, 6201-6214.	3.9	20
311	Energy Harvesting-Based D2D-Assisted Machine-Type Communications. IEEE Transactions on Communications, 2017, 65, 1289-1302.	4.9	49
312	An algorithmic study in the vector model for Wireless Power Transfer maximization. Pervasive and Mobile Computing, 2017, 42, 108-123.	2.1	11
313	Wireless-Powered Cooperative Multi-Relay Systems With Relay Selection. IEEE Access, 2017, 5, 19058-19071.	2.6	14
314	Wireless Power Transfer-Based Multi-Pair Two-Way Relaying With Massive Antennas. IEEE Transactions on Wireless Communications, 2017, 16, 7672-7684.	6.1	40
315	High-efficiency rectifier (5.2 GHz) using a Class-FDickson charge pump. Microwave and Optical Technology Letters, 2017, 59, 3018-3023.	0.9	8
316	An Overview of Sustainable Green 5G Networks. IEEE Wireless Communications, 2017, 24, 72-80.	6.6	427
317	Wireless Energy Harvesting Sensor Networks: Boolean–Poisson Modeling and Analysis. IEEE Transactions on Wireless Communications, 2017, 16, 7108-7122.	6.1	7
318	AN-Aided Relay-Selection Scheme for Securing Untrusted RF-EH Relay Systems. IEEE Transactions on Green Communications and Networking, 2017, 1, 481-493.	3.5	19
319	Wireless Information and Power Transfer in Kth Best Relay Selection Systems with Energy Beamforming over Nakagami-m Fading Channels. Wireless Personal Communications, 2017, 97, 4229-4249.	1.8	2
320	Performance of Energy-Harvesting Receivers With Time-Switching Architecture. IEEE Transactions on Wireless Communications, 2017, 16, 7252-7263.	6.1	9
321	Agile Blocker and Clock Jitter Tolerant Low-Power Frequency Selective Receiver with Energy Harvesting Capability. Scientific Reports, 2017, 7, 9658.	1.6	2
322	Recent progress on smart mining in China: Unmanned electric locomotive. Advances in Mechanical Engineering, 2017, 9, 168781401769504.	0.8	11
323	Joint EH Time Allocation and Distributed Beamforming in Interference-Limited Two-Way Networks With EH-Based Relays. IEEE Transactions on Wireless Communications, 2017, 16, 6395-6408.	6.1	17
324	Wireless Powered Communication Networks: Research Directions and Technological Approaches. IEEE Wireless Communications, 2017, 24, 88-97.	6.6	147
325	Sum rate optimization for SWIPT system based on zero-forcing beamforming and time switching. , 2017, , .		5

#	Article	IF	CITATIONS
326	Hybrid Backscatter Communication for Wireless-Powered Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2017, 16, 6557-6570.	6.1	124
327	Secrecy Capacity in CRN With Malicious Energy Harvester Using Game Theoretic Techniques. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 343-360.	4.9	12
328	Multi-Antenna Enabled Cluster-Based Cooperation in Wireless Powered Communication Networks. IEEE Access, 2017, 5, 13941-13950.	2.6	20
329	Maximum harvested energy policy in fullâ€duplex relaying networks with SWIPT. International Journal of Communication Systems, 2017, 30, e3359.	1.6	32
330	Communication on SWIPT and EH Using Electromagnetic Behaviour for Power Allocation in Wireless Networks. Journal of the Institution of Engineers (India): Series B, 2017, 98, 599-616.	1.3	2
331	Optimal Design of SWIPT Systems With Multiple Heterogeneous Users Under Non-linear Energy Harvesting Model. IEEE Access, 2017, 5, 11479-11489.	2.6	56
332	Instantaneous and statistical resource allocation for wireless powered one-way relaying with multiple antennas. , 2017, , .		0
333	Outage analysis of cognitive two-way AF relaying systems with wireless power transfer. , 2017, , .		0
334	Fairness enhancement in dual-hop wireless powered communication networks. , 2017, , .		7
335	Wireless Information and Power Transfer to Maximize Information Throughput in WBAN. IEEE Internet of Things Journal, 2017, 4, 1663-1670.	5.5	79
336	Lifetime maximization in AF cooperative networks with energy-harvesting relays. , 2017, , .		2
337	Traffic-pattern aware opportunistic wireless energy harvesting in cognitive radio networks. , 2017, , .		2
338	Opportunistic-Harvesting: RF Wireless Power Transfer Scheme for Multiple Access Relays System. IEEE Access, 2017, 5, 16084-16099.	2.6	26
339	Throughput analysis of the two-way relay system with network coding and energy harvesting. , 2017, , .		14
340	A contract-based incentive mechanism for energy harvesting-based Internet of Things. , 2017, , .		18
341	Nonlinear MIMO Transceivers Improve Wireless-Powered and Self-Interference-Aided Relaying. IEEE Transactions on Wireless Communications, 2017, 16, 6953-6966.	6.1	10
342	Wireless Power Transfer to Millimeter-Sized Nodes Using Airborne Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1526-1541.	1.7	35
343	Ultra reliable short message relaying with wireless power transfer. , 2017, , .		15

#	Article	IF	CITATIONS
344	Resource allocation for energy harvesting-powered D2D communications underlaying cellular networks. , 2017, , .		23
345	Simultaneous Wireless Information and Power Transfer with Finite-Alphabet Inputs. Wireless Personal Communications, 2017, 96, 655-668.	1.8	1
346	Robust AN-Aided Beamforming Design for Secure MISO Cognitive Radio Based on a Practical Nonlinear EH Model. IEEE Access, 2017, 5, 14011-14019.	2.6	22
347	A survey on green communication and security challenges in 5G wireless communication networks. Journal of Network and Computer Applications, 2017, 96, 39-61.	5.8	76
348	Interference-Aided Energy Harvesting: Cognitive Relaying With Multiple Primary Transceivers. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 313-327.	4.9	31
349	Optimal Resource Allocation in Wireless Powered Communication Networks With User Cooperation. IEEE Transactions on Wireless Communications, 2017, 16, 7936-7949.	6.1	37
350	Buffer-aided relaying scheme with energy harvesting in a cognitive wireless sensor network. International Journal of Distributed Sensor Networks, 2017, 13, 155014771770996.	1.3	3
351	Safe Charging for Wireless Power Transfer. IEEE/ACM Transactions on Networking, 2017, 25, 3531-3544.	2.6	100
352	Wirelessly Powered Two-Way Communication With Nonlinear Energy Harvesting Model: Rate Regions Under Fixed and Mobile Relay. IEEE Transactions on Wireless Communications, 2017, 16, 8190-8204.	6.1	126
353	Dynamic energy balanced max flow routing in energy-harvesting sensor networks. International Journal of Distributed Sensor Networks, 2017, 13, 155014771773981.	1.3	3
354	Coalition Formation Approaches for Cooperative Networks With SWIPT. IEEE Access, 2017, 5, 17644-17659.	2.6	6
355	The maximal mission efficiency for missioned mobile robot charger in wireless rechargeable sensor networks. , 2017, , .		1
356	Resource Allocation in Wireless Powered Cognitive Radio Networks Based on a Practical Non-Linear Energy Harvesting Model. IEEE Access, 2017, 5, 17618-17626.	2.6	61
357	Optimizing Joint Data and Power Transfer in Energy Harvesting Multiuser Wireless Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 10989-11000.	3.9	10
358	Efficient Coded Cooperative Networks With Energy Harvesting and Transferring. IEEE Transactions on Wireless Communications, 2017, 16, 6335-6349.	6.1	17
359	Joint optimization of cognitive RF energy harvesting and channel access using Markovian Multi-Armed Bandit problem. , 2017, , .		5
360	Precoder Design for Simultaneous Wireless Information and Power Transfer Systems With Finite-Alphabet Inputs. IEEE Transactions on Vehicular Technology, 2017, 66, 9085-9097.	3.9	22
361	Optimization of a Power Splitting Protocol for Two-Way Multiple Energy Harvesting Relay System. IEEE Transactions on Green Communications and Networking, 2017, 1, 444-457.	3.5	51

#	Article	IF	CITATIONS
362	Simultaneously charging multiple sensor nodes in multi-antenna wireless-powered sensor networks. , 2017, , .		2
363	Optimization of Power Conversion Efficiency in Threshold Self-Compensated UHF Rectifiers With Charge Conservation Principle. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2380-2387.	3.5	13
364	Harmonic enhanced location detection technique for energy harvesting receiver with resonator coupling design. , 2017, , .		9
365	Distributed scheduling in wireless powered communication network: Protocol design and performance analysis. , 2017, , .		14
366	Robust Bayesian learning for wireless RF energy harvesting networks. , 2017, , .		9
367	Wireless Powered Dense Cellular Networks: How Many Small Cells Do We Need?. IEEE Journal on Selected Areas in Communications, 2017, 35, 2010-2024.	9.7	41
368	Wireless Information and Power Transfer in MIMO Virtual Full-Duplex Relaying System. IEEE Transactions on Vehicular Technology, 2017, 66, 11001-11010.	3.9	12
369	Secrecy Performance Optimization for Wireless Powered Communication Networks With an Energy Harvesting Jammer. IEEE Transactions on Communications, 2017, 65, 764-774.	4.9	69
370	Energy-efficient resource allocation in future wireless networks by sequential fractional programming. , 2017, 60, 324-337.		25
371	Self-Energy Recycling for RF Powered Multi-Antenna Relay Channels. IEEE Transactions on Wireless Communications, 2017, 16, 812-824.	6.1	30
372	Secrecy Rate Beamforming for Multicell Networks With Information and Energy Harvesting. IEEE Transactions on Signal Processing, 2017, 65, 677-689.	3.2	68
373	Wireless-Powered Sensor Networks: How to Realize. IEEE Transactions on Wireless Communications, 2017, 16, 221-234.	6.1	87
374	A scheme to improve PCE of differential-drive CMOS rectifier for low RF input power. Analog Integrated Circuits and Signal Processing, 2017, 90, 113-124.	0.9	15
375	Energy Harvesting from Ambient Radio Frequency: Is it Worth it?. Arabian Journal for Science and Engineering, 2017, 42, 2673-2683.	1.7	15
376	On the DMT of RF Energy Harvesting-Based Dynamic Decode-and-Forward Relaying. IEEE Communications Letters, 2017, 21, 200-203.	2.5	11
377	Optimal Wireless Energy Charging for Incentivized Content Transfer in Mobile Publish–Subscribe Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 3420-3434.	3.9	6
378	Transmit Probability Designs for Wireless Peer Discovery With Energy Harvesting. IEEE Communications Letters, 2017, 21, 644-647.	2.5	5
379	Beamforming Design for Wireless Information and Power Transfer Systems: Receive Power-Splitting Versus Transmit Time-Switching. IEEE Transactions on Communications, 2017, 65, 876-889.	4.9	72

#	Article	IF	CITATIONS
380	Impact of residual transmit RF impairments on energy harvesting relay selection systems. International Journal of Electronics, 2017, 104, 928-941.	0.9	9
381	Cognitive Radio Networking with Cooperative Relaying and Energy Harvesting. , 2017, , .		3
382	Adaptive Switching for Efficient Energy Harvesting in Energy Constraint IoT Devices. , 2017, , .		9
383	Wireless Information and Power Transfer: Issues, Advances, and Challenges. , 2017, , .		9
384	Self-Sustainable Robotic Environment Discovery for Energy Harvesting Internet of Things. , 2017, , .		0
385	Resource Allocation for an Underlay Wireless Powered Cognitive Radio. , 2017, , .		0
386	On energy and data delivery in wireless local area networks with RF charging nodes. , 2017, , .		2
387	The impact of waveform on the efficiency of RF to DC conversion using prefabricated energy harvesting device. , 2017, , .		10
388	Rate-Energy Tradeoff and Decoding Error Probability-Energy Tradeoff for SWIPT in Finite Code Length. IEEE Transactions on Wireless Communications, 2017, 16, 8220-8234.	6.1	11
389	Game-Theory-Based Distributed Power Splitting for Future Wireless Powered MTC Networks. IEEE Access, 2017, 5, 20124-20134.	2.6	4
390	Energy Efficient Resource Allocation for MIMO SWIPT Broadcast Channels. , 2017, , .		0
391	A Self-Sustainable RF Energy Harvesting Algorithm for WSN-Based IoT Applications. , 2017, , .		6
392	Secure Two-Way Communication via a Wireless Powered Untrusted Relay and Friendly Jammer. , 2017, , .		19
393	Optimal Beamforming and Power Splitting Design for SWIPT under Non-Linear Energy Harvesting Model. , 2017, , .		7
394	Power Management in Wireless Power-Sipping Devices: A Survey. IEEE Circuits and Systems Magazine, 2017, 17, 64-82.	2.6	23
395	Securing Untrusted RF-EH Relay Networks Using Cooperative Jamming Signals. IEEE Access, 2017, 5, 24353-24367.	2.6	18
396	System-Level Energy Balance for Maximizing Network Lifetime in WSNs. IEEE Access, 2017, 5, 20046-20057.	2.6	10
397	On Physical Layer Security of Two Way Energy Harvesting Relays. , 2017, , .		4

#	Article	IF	CITATIONS
398	On Simultaneous Wireless Information and Power Transfer for Receive Spatial Modulation. IEEE Access, 2017, 5, 23204-23211.	2.6	9
399	Robust Secure Beamforming for Wireless Powered Full-Duplex Systems With Self-Energy Recycling. IEEE Transactions on Vehicular Technology, 2017, 66, 10055-10069.	3.9	44
400	Outage probability of energy harvesting DF relay systems in generalized-K fading. , 2017, , .		4
401	Optimal Operational Parameters for 5G Energy Harvesting Cognitive Wireless Sensor Networks. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2017, 34, 62-72.	2.1	22
402	Performance optimization of RF energy harvesting wireless sensor networks. Procedia Computer Science, 2017, 115, 831-837.	1.2	10
403	An Extension to ns-3 for Simulating Mobile Charging with Wireless Energy Transfer. Communications in Computer and Information Science, 2017, , 256-270.	0.4	1
404	Proactive and Reactive DF Relaying for Energy Harvesting Underlay CR Network. Lecture Notes in Electrical Engineering, 2017, , 13-23.	0.3	1
405	Energy-efficient resource allocation in CoMP-SWIPT heterogeneous networks. , 2017, , .		0
406	Online Time Sharing Policy in Energy Harvesting Cognitive Radio Network with Channel Uncertainty. , 2017, , .		6
407	Cooperative Multi-relay Assisted Multicast Beamforming in Wirelessly Powered Communications. , 2017, , .		2
408	Admission control and power allocation in wireless power charging networks. , 2017, , .		4
409	Efficient energy beamforming for multi-device microwave wireless power transfer under Tx/Rx power constraints. , 2017, , .		3
410	MEMS based soft nervous materials with ambient RF power supply: Feasibility study. , 2017, , .		0
411	Harvested power maximization in QoS-Constrained MIMO SWIPT with generic RF harvesting model. , 2017, , .		3
412	RF energy harvesting with multiple sources in wireless sensor network. , 2017, , .		4
413	Transmission Strategy for D2D Terminal with Ambient RF Energy Harvesting. , 2017, , .		2
414	RF energy harvesting based relays: Non-orthogonal AF Vs dynamic DF. , 2017, , .		4
415	Energy harvesting relay outage probability analysis of cooperative communication system over small and large scale fading channels. , 2017, , .		0

	CITATION	Report	
# 416	ARTICLE Optimal spectrum sensing policy in RF-powered cognitive radio networks. , 2017, , .	IF	CITATIONS
417	Optimal energy requesting strategy for RF-based energy harvesting wireless communications. , 2017, , .		13
418	Multi-objective resource allocation in NOMA cognitive radios based on a practical non-linear energy harvesting model. , 2017, , .		3
419	Simultaneous wireless information and power transfer in relay networks with finite blocklength codes. , 2017, , .		1
420	P5G: A Bio-Inspired Algorithm for the Superfluid Management of 5G Networks. , 2017, , .		9
421	Fronthaul-Aware Group Sparse Precoding and Signal Splitting in SWIPT C-RAN. , 2017, , .		1
422	Optimal Resource Allocation and Relay Selection for Self-Sustainable Relaying Networks. , 2017, , .		0
423	Design and performance analysis of energy harvesting sensor networks with supercapacitor. , 2017, , .		1
424	Adaptive Multiuser Scheduling for Simultaneous Wireless Information and Power Transfer in a Multicell Environment. IEEE Transactions on Wireless Communications, 2017, 16, 7460-7474.	6.1	13
425	Stochastic modeling of wireless charged wearables for reliable health monitoring in hospital environments. , 2017, , .		6
426	Jointly broadcasting data and power with quality of service guarantees. , 2017, , .		0
427	Protocols of simultaneous wireless information and power transfer scheme for multi-carrier DCSK. , 2017, , .		1
428	How Many Hops Are Needed in Multi-Hop Energy Harvesting Wireless Networks. , 2017, , .		0
429	Sum Throughput Optimization for Wireless Powered Sensor Networks. , 2017, , .		3
430	Robust Cooperative Routing for Ambient Backscatter Wireless Sensor Networks. , 2017, , .		7
431	Energy efficient AC computing methodology for wirelessly powered IoT devices. , 2017, , .		9
432	A technical review of simultaneous wireless information and power transfer (SWIPT). , 2017, , .		12
433	Resource allocation for sensors with wireless power transfer and ambient backscatter transmission. , 2017, , .		2

#	Article	IF	CITATIONS
434	Transmitting information and harvested energy over a fading MAC with minimum rate constraints. , 2017, , .		0
435	QoS enhancements in energy harvesting cognitive radio communications networks. , 2017, , .		5
436	Electricity theft concerns within advanced energy technologies. , 2017, , .		8
437	On-Body Long-Range Wireless Backscattering Sensing System Using Inkjet-/3-D-Printed Flexible Ambient RF Energy Harvesters Capable of Simultaneous DC and Harmonics Generation. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5389-5400.	2.9	32
438	Secure and Energy-Efficient Beamforming for Simultaneous Information and Energy Transfer. IEEE Transactions on Wireless Communications, 2017, 16, 7523-7537.	6.1	37
439	Portable rotational electromagnetic energy harvester with a maximum energy tracking power management system. , 2017, , .		3
440	Cooperative spectrum sensing in RF-powered full-duplex cognitive radio networks. , 2017, , .		1
441	Analysis of Wireless-Powered Device-to-Device Communications with Ambient Backscattering. , 2017, , .		7
442	Robust Radio Mode Selection in Wirelessly Powered Communications with Uncertain Channel Information. , 2017, , .		6
443	On the performance of wireless powered communication with non-linear energy harvesting. , 2017, , .		19
444	Optimal Time-Switching Relaying Protocol for Wireless-Powered DF Relay Networks. , 2017, , .		2
445	A compact Butler matrix for wireless power transfer to aid electromagnetic energy harvesting for sensors. , 2017, , .		14
446	On outage probability of two-way relaying data transmission and energy harvesting. , 2017, , .		1
447	Simultaneous sensing, transmission and energy harvesting: Full-duplex in RF-powered cognitive radio networks. , 2017, , .		Ο
448	Resource Allocation in OFDM-Based SWIPT with Statistical Delay Constraints. , 2017, , .		2
449	Statistical Models for Battery Recharge Time from RF Energy Scavengers in Generalized Wireless Fading Channels. , 2017, , .		2
450	Efficient data and energy transfer in IoT with a mobile cognitive base station. , 2017, , .		4
451	Characterization of RF energy harvesting at 2.4 GHz. , 2017, , .		9

ARTICLE IF CITATIONS # Wireless energy harvesting from ambient sources for cognitive networks in rural communities., 2017, 452 11 Rate Optimization of Two-Way Relaying with Wireless Information and Power Transfer. Information 1.7 (Switzerland), 2017, 8, 141. Wireless Power Transfer Protocols in Sensor Networks: Experiments and Simulations. Journal of 454 2.330 Sensor and Actuator Networks, 2017, 6, 4. Simultaneous Wireless Power Transfer and Secure Multicasting in Cooperative Decode-and-Forward Relay Networks. Sensors, 2017, 17, 1128. Joint Transmit Power Allocation and Splitting for SWIPT Aided OFDM-IDMA in Wireless Sensor 456 2.1 10 Networks. Sensors, 2017, 17, 1566. A Long-Distance RF-Powered Sensor Node with Adaptive Power Management for IoT Applications. 2.1 Sensors, 2017, 17, 1732. Statistical-QoS Guaranteed Energy Efficiency Optimization for Energy Harvesting Wireless Sensor 458 2.1 6 Networks. Sensors, 2017, 17, 1933. Joint Resource Optimization for Cognitive Sensor Networks with SWIPT-Enabled Relay. Sensors, 2017, 2.1 17, 2093. Cluster Cooperation in Wireless-Powered Sensor Networks: Modeling and Performance Analysis. 460 2.1 5 Sensors, 2017, 17, 2215. Wireless Energy Harvesting Two-Way Relay Networks with Hardware Impairments. Sensors, 2017, 17, 2.1 2604. SH-SecNet: An Enhanced Secure Network Architecture for the Diagnosis of Security Threats in a Smart 462 1.6 23 Home. Sustainability, 2017, 9, 513. Design and Simulation of Different Wireless Power Transfer Circuits., 2017, , . Transmission Power and Antenna Allocation for Energy-Efficient RF Energy Harvesting Networks with 464 1.6 4 Massive MIMO. Energies, 2017, 10, 802. Applicability of Compressive Sensing for Wireless Energy Harvesting Nodes. Energies, 2017, 10, 1776. 1.6 466 Portable rotational electromagnetic energy harvester for IoT., 2017, , . 5 EH-mulSEP: Energy-harvesting enabled multi-level SEP protocol for IoT-based heterogeneous WSNs., 2017,,. Design and development of dual-band multi-stage RF energy harvesting circuit for low power 468 6 applications., 2017,,. Outage Probability Analysis in Power-Beacon Assisted Energy Harvesting Cognitive Relay Wireless 469 Networks. Wireless Communications and Mobile Computing, 2017, 2017, 1-15.

#	Article	IF	CITATIONS
470	REACH: An Efficient MAC Protocol for RF Energy Harvesting in Wireless Sensor Network. Wireless Communications and Mobile Computing, 2017, 2017, 1-8.	0.8	12
471	Optimal power splitting in wireless powered communication network with two-way relay. , 2017, , .		4
472	A Density-Based Clustering Approach for Optimal Energy Replenishment in WRSNs. , 2017, , .		1
473	Outage probability of MIMO relaying full-duplex system with wireless information and power transfer. , 2017, , .		10
474	Capacity Region of a MAC with a Wireless-Powered DF Relay-to-Destination Link. , 2017, , .		0
475	Characterization of aggregate received power from power beacons in millimeter wave ad hoc networks. , 2017, , .		4
476	Throughput maximization for wireless powered relay communications. , 2017, , .		2
477	Optimal energy harvesting time and power allocation policy in CRN under security constraints from eavesdroppers. , 2017, , .		2
478	Maximizing satisfaction of the elderly via scheduling for mobile robot charger in health surveillance. , 2017, , .		0
479	Energy harvesting communication systems: A practical full duplex approach. , 2017, , .		0
480	MATHEMATICAL MODEL OF LARGE RECTENNA ARRAYS FOR WIRELESS ENERGY TRANSFER. Progress in Electromagnetics Research B, 2017, 74, 77-91.	0.7	9
481	Bidirectional wireless information and power transfer for decodeâ€andâ€forward relay systems. IET Signal Processing, 2017, 11, 1015-1020.	0.9	3
482	Physical Layer Security in AF and CF Relay Networks with RF-Energy Harvesting. , 2017, , .		0
483	Relay Assignment for Energy Harvesting Cooperative Communication Systems with Long-Term CSI and Energy Side Information. IEICE Transactions on Communications, 2017, E100.B, 2139-2146.	0.4	0
484	RF Energy Harvesting for 5G: An Overview. , 2017, , .		7
485	Optimal channel selection for simultaneous RF energy harvesting and data transmission in cognitive radio networks. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3291.	2.6	7
486	Cooperative Wireless Powered Communication Networks With Interference Harvesting. IEEE Transactions on Vehicular Technology, 2018, 67, 3701-3705.	3.9	22
487	Spectrum Trading for Energy-Harvesting-Enabled Internet of Things in Harsh Environments. IEEE Access, 2018, 6, 16712-16726.	2.6	8

#	Article	IF	CITATIONS
488	Game-Theoretic Modeling of Backscatter Wireless Sensor Networks Under Smart Interference. IEEE Communications Letters, 2018, 22, 804-807.	2.5	6
489	A new scheme of dynamic power allocation in wireless powered communication. Physical Communication, 2018, 28, 35-44.	1.2	1
490	Incentive Mechanism Design for Wireless Energy Harvesting-Based Internet of Things. IEEE Internet of Things Journal, 2018, 5, 2620-2632.	5.5	75
491	Performance of Energy Harvesting Receivers With Power Optimization. IEEE Transactions on Communications, 2018, 66, 1309-1321.	4.9	5
492	Performance Analysis of Wireless Energy Harvesting Multihop Cluster-Based Networks Over Nakagami- \${m}\$ Fading Channels. IEEE Access, 2018, 6, 3068-3084.	2.6	27
493	Optimization of Links With a Battery-Assisted Time-Switching Wireless Energy Harvesting Relay. IEEE Systems Journal, 2018, 12, 3044-3051.	2.9	14
494	Adaptive Buffer-Aided Wireless Powered Relay Communication With Energy Storage. IEEE Transactions on Green Communications and Networking, 2018, 2, 432-445.	3.5	17
495	Towards Energy-Efficient Wireless Networking in the Big Data Era: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 303-332.	24.8	70
496	Optimal Power Splitting for Simultaneous Wireless Information and Power Transfer in Amplify-and-Forward Multiple-Relay Systems. IEEE Access, 2018, 6, 3459-3468.	2.6	18
497	On the Deployment of Distributed Antennas of Power Beacon in Wireless Power Transfer. IEEE Access, 2018, 6, 7489-7502.	2.6	8
498	Performance Analysis of Relaying Systems With Fixed and Energy Harvesting Batteries. IEEE Transactions on Communications, 2018, 66, 1386-1398.	4.9	35
499	On Dual-Path Energy-Harvesting Receivers for IoT With Batteries Having Internal Resistance. IEEE Internet of Things Journal, 2018, 5, 2741-2752.	5.5	15
500	Game Theoretic Approaches for Cooperative Spectrum Sensing in Energy-Harvesting Cognitive Radio Networks. IEEE Access, 2018, 6, 11086-11100.	2.6	30
501	Resource Allocation for Energy Harvesting-Powered D2D Communication Underlaying UAV-Assisted Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 14-24.	3.5	155
502	Online Joint Power Control for Two-Hop Wireless Relay Networks With Energy Harvesting. IEEE Transactions on Signal Processing, 2018, 66, 463-478.	3.2	27
503	Joint resource optimization for DF relaying SWIPT based cognitive sensor networks. Physical Communication, 2018, 27, 93-98.	1.2	8
504	Artificial Noise Aided Secure Cognitive Beamforming for Cooperative MISO-NOMA Using SWIPT. IEEE Journal on Selected Areas in Communications, 2018, 36, 918-931.	9.7	235
505	Nonlinear energy-harvesting relaying with beamforming and hardware impairments inlºaˆ`l¼shadowed fading environment. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3303.	2.6	1

#	Article	IF	CITATIONS
506	Rate-Energy Tradeoff in Simultaneous Wireless Information and Power Transfer Over Fading Channels With Uncertain Distribution. IEEE Transactions on Vehicular Technology, 2018, 67, 3663-3668.	3.9	16
507	A Software-Defined Surveillance System With Energy Harvesting: Design and Performance Optimization. IEEE Internet of Things Journal, 2018, 5, 1361-1369.	5.5	13
508	Throughput Maximization for Hybrid Backscatter Assisted Cognitive Wireless Powered Radio Networks. IEEE Internet of Things Journal, 2018, 5, 2015-2024.	5.5	93
509	Wireless rechargeable sensor networks with separable charger array. International Journal of Distributed Sensor Networks, 2018, 14, 155014771876899.	1.3	12
510	Power Beacon-Assisted Millimeter Wave Ad Hoc Networks. IEEE Transactions on Communications, 2018, 66, 830-844.	4.9	42
511	SCAPE: Safe Charging With Adjustable Power. IEEE/ACM Transactions on Networking, 2018, 26, 520-533.	2.6	69
512	Energy Efficiency Optimization For Wireless Powered Sensor Networks With Nonorthogonal Multiple Access. , 2018, 2, 1-4.		68
513	Connectivity Analysis in Clustered Wireless Sensor Networks Powered by Solar Energy. IEEE Transactions on Wireless Communications, 2018, 17, 2389-2401.	6.1	34
514	Beam-domain hybrid time-switching and power-splitting SWIPT in full-duplex massive MIMO system. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	10
515	Delay-Aware Resource Allocation for 5G Wireless Networks With Wireless Power Transfer. IEEE Transactions on Vehicular Technology, 2018, 67, 5841-5855.	3.9	18
516	Decentralized Robust Transceiver Designs for MISO SWIPT Interference Channel. IEEE Access, 2018, 6, 4537-4546.	2.6	7
517	Robust Transmission Power Management for Remote State Estimation With Wireless Energy Harvesting. IEEE Internet of Things Journal, 2018, 5, 2682-2690.	5.5	9
518	RF Energy Harvesting and Transfer in Cognitive Radio Sensor Networks: Opportunities and Challenges. , 2018, 56, 104-110.		108
519	Full Spectrum Sharing in Cognitive Radio Networks Toward 5G: A Survey. IEEE Access, 2018, 6, 15754-15776.	2.6	236
520	Review of Internet of Things (IoT) in Electric Power and Energy Systems. IEEE Internet of Things Journal, 2018, 5, 847-870.	5.5	460
521	Ultra-Reliable Cooperative Short-Packet Communications With Wireless Energy Transfer. IEEE Sensors Journal, 2018, 18, 2161-2177.	2.4	45
522	Disaster Management Using D2D Communication With Power Transfer and Clustering Techniques. IEEE Access, 2018, 6, 14643-14654.	2.6	97
523	Secure Transmission in SWIPT-Powered Two-Way Untrusted Relay Networks. IEEE Access, 2018, 6, 10508-10519.	2.6	43

		CITATION REPORT		
#	Article		IF	Citations
524	Physical Layer Service Integration in 5G: Potentials and Challenges. IEEE Access, 2018,	6, 16563-16575.	2.6	13
525	Throughput Analysis of Power-Beacon-Assisted Energy Harvesting Wireless Systems Ov Non-Identical Nakagami- <inline-formula> <tex-math notation="LaTeX">\${m} </tex-math> </inline-formula> Fading Channels. IEEE Communications Letter 840-843.	er \$ s, 2018, 22,	2.5	23
526	Wireless-Powered Device-to-Device Communications With Ambient Backscattering: Pe Modeling and Analysis. IEEE Transactions on Wireless Communications, 2018, 17, 1523	formance 8-1544.	6.1	102
527	Energy Cooperation in Battery-Free Wireless Communications with Radio Frequency En Harvesting. Transactions on Embedded Computing Systems, 2018, 17, 1-17.	ergy	2.1	30
528	Wireless Powered Communications With Finite Battery and Finite Blocklength. IEEE Tra Communications, 2018, 66, 1803-1816.	insactions on	4.9	33
529	Self-Sustainability of Energy Harvesting Systems: Concept, Analysis, and Design. IEEE To Green Communications and Networking, 2018, 2, 175-192.	ransactions on	3.5	18
530	Beamforming in Wireless Energy Harvesting Communications Systems: A Survey. IEEE G Surveys and Tutorials, 2018, 20, 1329-1360.	Communications	24.8	119
531	Ambient Backscatter Assisted Wireless Powered Communications. IEEE Wireless Comn 25, 170-177.	nunications, 2018,	6.6	153
532	Wireless Information and Power Transfer: Rate-Energy Tradeoff for Nonlinear Energy Ha Transactions on Wireless Communications, 2018, 17, 1966-1981.	irvesting. IEEE	6.1	65
533	Robust Transmit Beamforming With Artificial Redundant Signals for Secure SWIPT Syst Non-Linear EH Model. IEEE Transactions on Wireless Communications, 2018, 17, 2218-	em Under 2232.	6.1	53
534	Wireless Information and Power Transfer: Nonlinearity, Waveform Design, and Rate-Ene IEEE Transactions on Signal Processing, 2018, 66, 847-862.	ergy Tradeoff.	3.2	142
535	Simultaneous Wireless Information and Power Transfer in Multi-antenna Systems. Journ Processing Systems, 2018, 90, 827-848.	hal of Signal	1.4	3
536	Wireless Powered Sensor Networks for Internet of Things: Maximum Throughput and C Allocation. IEEE Internet of Things Journal, 2018, 5, 310-321.	Optimal Power	5.5	127
537	A two-queue model for optimising the value of information in energy-harvesting sensor Performance Evaluation, 2018, 119, 27-42.	networks.	0.9	14
538	Assessing the cost of deploying and maintaining indoor wireless sensor networks with harvesting properties. Pervasive and Mobile Computing, 2018, 43, 64-77.	RF-power	2.1	11
539	Joint Uplink and Downlink Coverage Analysis of Cellular-based RF-powered IoT Network Transactions on Green Communications and Networking, 2018, 2, 446-459.	. IEEE	3.5	39
540	Miniature high gain slot-fed rectangular dielectric resonator antenna for IoT RF energy AEU - International Journal of Electronics and Communications, 2018, 85, 39-46.	narvesting.	1.7	21
541	Bio-inspired optimization algorithms applied to rectenna design. Big Data Analytics, 20	18, 3, .	2.2	6

#	Article	IF	CITATIONS
542	Massive MIMO-Assisted Energy Transfer Technology. Springer Briefs in Electrical and Computer Engineering, 2018, , 57-90.	0.3	0
543	Massive MIMO for Industrial Internet of Things in Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 2641-2652.	7.2	65
544	HE-MAC: Harvest-Then-Transmit Based Modified EDCF MAC Protocol for Wireless Powered Sensor Networks. IEEE Transactions on Wireless Communications, 2018, 17, 3-16.	6.1	42
545	Inductorâ€Free Wireless Energy Delivery via Maxwell's Displacement Current from an Electrodeless Triboelectric Nanogenerator. Advanced Materials, 2018, 30, 1704077.	11.1	124
546	A broadband electromagnetic type energy harvester for smart sensor devices in biomedical applications. Sensors and Actuators A: Physical, 2018, 277, 52-59.	2.0	32
547	Max–min fair beamforming designs of SWIPT-aided full-duplex two-way relay systems. Physical Communication, 2018, 29, 22-30.	1.2	3
548	D2D Communications Underlaying Wireless Powered Communication Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7872-7876.	3.9	29
549	Energy-Harvesting Wireless Sensor Networks (EH-WSNs). ACM Transactions on Sensor Networks, 2018, 14, 1-50.	2.3	247
550	Resource allocation for hybrid TS and PS SWIPT in massive MIMO system. Physical Communication, 2018, 28, 201-213.	1.2	7
551	Performance analysis of energy harvesting DF relay system in generalized- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml26" display="inline" overflow="scroll" altimg="si26.gif"&gt;<mml:mi>K</mml:mi>fading environment. Physical Communication, 2018, 28. 190-200.</mml:math 	1.2	10
552	Optimal User Scheduling in Energy Harvesting Wireless Networks. IEEE Transactions on Communications, 2018, , 1-1.	4.9	11
553	Adaptive Wireless-Powered Relaying Schemes With Cooperative Jamming for Two-Hop Secure Communication. IEEE Internet of Things Journal, 2018, 5, 2793-2803.	5.5	44
554	Feasibility of RF energy harvesting for wireless gas sensor nodes. Sensors and Actuators A: Physical, 2018, 275, 37-43.	2.0	31
555	Exact outage analysis of energy-harvesting multihop cluster-based networks with multiple power beacons over Nakagami-m fading channels. , 2018, , .		6
556	Outage probability in cognitive wireless powered communication networks considering QoS in primary networks. , 2018, , .		1
557	Notice of Violation of IEEE Publication Principles: Robust Secure Precoding Design for MIMO SWIPT System With Bounded Channel Uncertainties. IEEE Access, 2018, 6, 7888-7896.	2.6	5
558	Global Energy Efficiency Optimization for Wireless-Powered Massive MIMO Aided Multiway AF Relay Networks. IEEE Transactions on Signal Processing, 2018, 66, 2384-2398.	3.2	22
559	Distributed Multi-Relay Selection in Accumulate-Then-Forward Energy Harvesting Relay Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 74-86.	3.5	66

#	Article	IF	CITATIONS
560	Accumulate Then Transmit: Toward Secure Wireless Powered Communication Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 6301-6310.	3.9	24
561	An Analysis of the Optimum Node Density for Simultaneous Wireless Information and Power Transfer in Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2713-2726.	3.9	17
562	Wireless Powered Asynchronous Backscatter Networks With Sporadic Short Packets: Performance Analysis and Optimization. IEEE Internet of Things Journal, 2018, 5, 984-997.	5.5	24
563	DTER: Optimal Two-Step Dual Tunnel Energy Requesting for RF-Based Energy Harvesting System. IEEE Internet of Things Journal, 2018, 5, 2768-2780.	5.5	8
564	A Decentralized Optimization Framework for Energy Harvesting Devices. IEEE Transactions on Mobile Computing, 2018, 17, 2483-2496.	3.9	9
565	Throughput optimization for wireless information and power transfer in communication network. , 2018, , .		8
566	Energy Efficiency Optimization With SWIPT in MIMO Broadcast Channels for Internet of Things. IEEE Internet of Things Journal, 2018, 5, 2605-2619.	5.5	88
567	0.5-Gb/s OFDM-Based Laser Data and Power Transfer Using a GaAs Photovoltaic Cell. IEEE Photonics Technology Letters, 2018, 30, 841-844.	1.3	46
568	RF Wireless Power Transfer: Regreening Future Networks. IEEE Potentials, 2018, 37, 35-41.	0.2	33
569	Performance Analysis of Wireless Powered Communications With Multiple Antennas. IEEE Access, 2018, 6, 15541-15549.	2.6	10
570	Simultaneous wireless information and power transfer for relay assisted energy harvesting network. Wireless Networks, 2018, 24, 453-462.	2.0	15
571	Proportional Fair Energy-Efficient Resource Allocation in Energy-Harvesting-Based Wireless Networks. IEEE Systems Journal, 2018, 12, 2106-2116.	2.9	18
572	Cooperative transmission in energy harvesting-based cognitive D2D networks. Wireless Networks, 2018, 24, 2579-2588.	2.0	2
573	Node Placement and Distributed Magnetic Beamforming Optimization for Wireless Power Transfer. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 264-279.	1.6	21
574	Distributed decision making policy for frequency band selection boosting RF energy harvesting rate in wireless sensor nodes. Wireless Networks, 2018, 24, 3189-3203.	2.0	3
575	Secure Transmission for Heterogeneous Cellular Networks With Wireless Information and Power Transfer. IEEE Systems Journal, 2018, 12, 3755-3766.	2.9	61
576	A queueing model of an energy harvesting sensor node with data buffering. Telecommunication Systems, 2018, 67, 281-295.	1.6	21
577	An RF-Powered Transceiver Exploiting Sample and Hold Operation on the Received Carrier. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 396-409.	2.9	9

#	Article	IF	CITATIONS
578	State-of-the-art literature review of WPT: Current limitations and solutions on IPT. Electric Power Systems Research, 2018, 154, 493-502.	2.1	47
579	Perpetual Robot Swarm: Long-Term Autonomy of Mobile Robots Using On-the-fly Inductive Charging. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 92, 395-412.	2.0	24
580	A triple hybrid micropower generator with simultaneous multi-mode energy harvesting. Smart Materials and Structures, 2018, 27, 014002.	1.8	11
581	RF Energy Harvesting and Transfer for Spectrum Sharing Cellular IoT Communications in 5G Systems. IEEE Transactions on Mobile Computing, 2018, 17, 1680-1694.	3.9	72
582	Harvest Energy from the Water. Transactions on Embedded Computing Systems, 2018, 17, 1-24.	2.1	7
583	Near-Optimal Co-Deployment of Chargers and Sink Stations in Rechargeable Sensor Networks. Transactions on Embedded Computing Systems, 2018, 17, 1-19.	2.1	16
584	Waveforming: An Overview With Beamforming. IEEE Communications Surveys and Tutorials, 2018, 20, 132-149.	24.8	26
585	Resource Allocation in Cooperative Networks With Wireless Information and Power Transfer. IEEE Transactions on Vehicular Technology, 2018, 67, 718-733.	3.9	14
586	A Critical Analysis of Research Potential, Challenges, and Future Directives in Industrial Wireless Sensor Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 39-95.	24.8	181
587	Simultaneous Wireless Information and Power Transfer (SWIPT): Recent Advances and Future Challenges. IEEE Communications Surveys and Tutorials, 2018, 20, 264-302.	24.8	585
588	WET-Enabled Passive Communication Networks: Robust Energy Minimization With Uncertain CSI Distribution. IEEE Transactions on Wireless Communications, 2018, 17, 282-295.	6.1	10
589	Traffic-Aware Optimal Spectral Access in Wireless Powered Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2018, 17, 733-745.	3.9	14
590	Throughput analysis of cognitive wireless acoustic sensor networks with energy harvesting. Future Generation Computer Systems, 2018, 86, 1218-1227.	4.9	20
591	A Game Theoretic Approach for Backscatter-Aided Relay Communications in Hybrid Radio Networks. , 2018, , .		11
592	Joint Beamforming and Clustering Optimization of Hybrid-Energy-Powered eRRHs in F-RANs. , 2018, , .		1
593	Throughput Analysis for Decode-and-Forward Relaying Protocol with Wireless Energy Harvesting and Information Processing. , 2018, , .		7
594	Recycling Cellular Downlink Energy for Overlay Self-Sustainable IoT Networks. , 2018, , .		2
595	Cooperative Trajectory Design and Resource Allocation for a Two-UAV Two-User Wireless Powered Communication System. , 2018, , .		9

#	Article	IF	CITATIONS
596	Evaluation of Precoding Scheme for Multi-User MIMO SWIPT Systems. , 2018, , .		1
597	Time Allocation Methods for Secure Wireless Powered Communication Networks. , 2018, , .		0
598	Sum-Throughput Maximization for MIMO Full-Duplex Wireless Powered Communication Network with Finite Alphabet Inputs. , 2018, , .		4
599	Energy Efficiency Optimization Method Under the Scene of Wireless Information and Energy Simultaneous Transmission. , 2018, , .		0
601	Joint Time Allocation and Power Splitting Schemes for Amplify-and-forward Relaying Network over Log-normal Fading Channel. , 2018, , .		2
602	Performance Analysis of Energy Harvesting based Two-way Multi-Relay Wireless Network. , 2018, , .		0
603	Modeling wireless power transfer in a network of smart devices: a compartmental system approach. , 2018, , .		0
604	Wireless Information and Energy Transfer in MIMO Communication With Interference Channels. IEEE Access, 2018, 6, 65845-65861.	2.6	1
605	A Hierarchical Game for Wireless Sensor Network with Wireless Energy Transfer. , 2018, , .		0
606	M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components. Sensors, 2018, 18, 3992.	2.1	5
607	Wireless Energy Harvesting from RF Signal for Low Power Device Charging Applications. , 2018, , .		2
608	Bidirectional secondary transmissions with energy harvesting in cognitive wireless sensor networks. Journal of Central South University, 2018, 25, 2626-2640.	1.2	0
609	Sudden Event Monitoring of Civil Infrastructure Using Demand-Based Wireless Smart Sensors. Sensors, 2018, 18, 4480.	2.1	32
610	Throughput Optimization Based on Simultaneously Decoding and Accessing in Cognitive NOMA System. , 2018, , .		0
611	Simple RF Energy Harvesting Circuit Using AMC Backed Bowtie Antenna. , 2018, , .		1
612	Exact Statistical Characterization of RF-Energy Harvesting over Rice Fading Channel. , 2018, , .		2
613	Energy-Efficient Resource Allocation in SWIPT Enabled NOMA Systems. , 2018, , .		3
614	Wireless Powered User Cooperative Computation in Mobile Edge Computing Systems. , 2018, , .		32

#	Article	IF	CITATIONS
615	Energy Efficient Beamforming and Polarization Reception for Massive MIMO Enabled SWIPT Systems. , 2018, , .		1
616	Robust Secure Transmit Design for SWIPT System with Many Types of Wireless Users and Passive Eavesdropper. IEICE Transactions on Communications, 2018, E101.B, 441-450.	0.4	6
617	Performance of Selective Decode-and-Forward SWIPT Network in Nakagami-M Fading Channel. , 2018, , .		4
618	RF Energy Harvesting and Information Transmission in IoT Relay Systems based on Time Switching and NOMA. , 2018, , .		1
621	Secure Analog Network Coding With Wireless Energy Harvesting Under Multiple Eavesdroppers. IEEE Access, 2018, 6, 76289-76301.	2.6	3
622	Network Utility Optimization in RF Energy Harvesting Wireless Sensor Networks via Fixed-Trajectory Mobile Charging. , 2018, , .		0
623	Enhanced CSMA/CA Protocol Design for Integrated Data and Energy Transfer in WLANs. , 2018, , .		4
624	A novel joint transmit beamforming and receive time switching strategy for MISO SWIPT system. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	1
625	A novel secure relay selection strategy for energy-harvesting-enabled Internet of things. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	10
626	Throughput Analysis in Collaborative Communication Based on Relay Energy Harvesting. , 2018, , .		0
627	Hybrid Beamformer Design with Low-Resolution Phase Shifters in MU-MISO SWIPT Systems. , 2018, , .		2
628	Traffic-Aware Optimal Spectrum Sensing Policy in Wireless-Powered Cognitive Radio Networks. , 2018, ,		1
629	Performance of a Cooperative Network with Direct Link and an Energy-Buffer Aided Relay. , 2018, , .		1
630	On the Design of a RF Schottky Diode Rectifier for Energy Harvesting Applications. , 2018, , .		1
631	Transceiver Design and Power Allocation for SWIPT in MIMO Cognitive Radio Systems. Symmetry, 2018, 10, 647.	1.1	4
632	Finite Horizon Throughput Maximization for a Wirelessly Powered Device Over a Time Varying Channel. , 2018, , .		1
633	Interference Aided Wireless Energy Harvesting in Cache-assisted Cognitive Relay System. , 2018, , .		1
634	SWIPT-Based Three-Step Multiplicative Amplify-and-Forward Two-Way Relay Networks with Non-Linear Energy Conversion Model. , 2018, , .		5
#	Article	IF	CITATIONS
------	--	-----	---
635	Performance Analysis of Hybrid Protocol Based Two-Way Decode-and-Forward Relay Networks. , 2018, ,		1
	• •		
636	Channel Coding for Energy Harvesting Communications Using Run Length Limited Codes. , 2018, , .		4
637	User-Centric Energy Efficiency of Distributed Antenna Systems with Wireless Power Transfer. , 2018, , .		0
(00)	Mayinization of Couvity Daged Energy Efficiency in Multicorrier Delay Naturahowith CNUDT 2018		
638	Maximization of Security Based Energy-Efficiency in Multicarrier Relay Networks with SWIP1., 2016, , .		0
639	Smart Energy Harvesting for Internet of Things. , 2018, , .		6
640	Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. , 2018, , .		2
641	0.5-Gb/s OFDM-Based Laser Data and Power Transfer using a GaAs Photovoltaic Cell. , 2018, , .		2
(40)	Realization of a Power-Efficient Transmitter Based on Integrated Artificial Neural Network. IEEE		10
642	Access, 2018, 6, 68773-68781.	2.6	10
643	Toward a Perpetual IoT System: Wireless Power Management Policy With Threshold Structure. IEEE	5.5	9
644	Energy Harvesting For Efficient 5G Networks. , 2018, , .		8
645	Harvesting. IEEE Access, 2018, 6, 71444-71454.	2.6	20
	On Supporting Legacy and RF Energy Harvesting Devices in Two-Tier OFDMA Heterogeneous Networks.		
646	IEEE Access, 2018, 6, 62538-62551.	2.6	3
647	Power and discrete rate adaptation in BER constrained wireless powered communication networks.	1.5	7
011	IET Communications, 2018, 12, 2213-2221.	110	
648	Resource Management in Energy Harvesting Cooperative IoT Network under QoS Constraints. Sensors, 2018. 18. 3560.	2.1	11
649	WiFED: WiFi Friendly Energy Delivery with Distributed Beamforming. , 2018, , .		6
	Physical Lover Security For Dual Hop VI C/PE Communication Systems, IEEE Communications Letters		
650	2018, 22, 2603-2606.	2.5	26
651	Why Lise RE Energy Hangesting in Smart Crids 2018		9
001	why use in Lifergy harvesting in Smart Olius., 2010, , .		о ————————————————————————————————————
652	RF Energy Harvesting System with RFID-Enabled Charge Storage Monitoring. , 2018, , .		7

#	Article	IF	CITATIONS
653	Energy Harvesting Technologies for Achieving Self-Powered Wireless Sensor Networks in Machine Condition Monitoring: A Review. Sensors, 2018, 18, 4113.	2.1	155
655	Full-Duplex Relay System with Energy Harvesting: Outage and Symbol Error Probabilities. , 2018, , .		4
656	Outage Probability and Throughput Analysis of SWIPT System with Two-Way Relay over Log-normal Fading Channels. , 2018, , .		2
657	Sensing Strategy Exploiting Channel Memory in CR Network With RF Energy Harvesting. IEEE Communications Letters, 2018, 22, 2539-2542.	2.5	7
658	A New Protocol based on Optimal Capacity for Energy Harvesting Amplify-and-Forward Relaying Networks. , 2018, , .		2
659	OFDM Based SWIPT for Two-Way AF Relaying Network. IEEE Access, 2018, 6, 73223-73231.	2.6	10
660	Exact Statistical Characterization of RF-Energy Harvesting over Nakagami-m Fading Channel. , 2018, , .		2
661	Energy Trading in Wireless Power Transmission System Considering Nonlinear Rectifier. , 2018, , .		0
662	Performance Analysis of Energy Harvesting Two-Way Decode-and-Forward Relay Networks with Power Beacon over Nakagami-m Fading Channels. , 2018, , .		0
663	Positive Impact of Interference on RF Energy Harvesting for IoT Devices. , 2018, , .		3
664	Room-Wide Wireless Charging and Load-Modulation Communication via Quasistatic Cavity Resonance. , 2018, 2, 1-23.		24
665	Recharging wireless sensor networks using drones and wireless power transfer. , 2018, , .		6
666	The Design of RF Energy Harvesting and Transfer System. , 2018, , .		1
667	RWC: A Robust Wireless Charging System for Dockless Bike-Sharing. , 2018, , .		3
668	Energy-Efficient Secure Transmission for Wireless Powered Internet of Things With Multiple Power Beacons. IEEE Access, 2018, 6, 75086-75098.	2.6	22
669	RF Energy Harvesting and Information Transmission Based on Power Splitting and NOMA for IoT Relay Systems. , 2018, , .		8
670	RF Energy Harvesting Based Multiple Access Relay Systems: A DMT Perspective. IEEE Access, 2018, 6, 76075-76086.	2.6	2
671	Multiband Coplanar Monopole Antenna for Energy Harvesting. , 2018, , .		7

		15	0
#	ARTICLE	IF	CITATIONS
672	Induction of Ambient Electromagnetic Waves. Advanced Functional Materials, 2018, 28, 1805277.	7.8	30
673	Charging While Moving: Deploying Wireless Chargers for Powering Wearable Devices. IEEE Transactions on Vehicular Technology, 2018, 67, 11575-11586.	3.9	25
674	Dynamic Network Slicing for Scalable Fog Computing Systems With Energy Harvesting. IEEE Journal on Selected Areas in Communications, 2018, 36, 2640-2654.	9.7	50
675	On Maximizing Sampling Time of RF-Harvesting Sensor Nodes over Random Channel Gains. , 2018, , .		6
676	Full-Duplex Wireless Powered IoT Networks. IEEE Access, 2018, 6, 53546-53556.	2.6	4
677	Direct Electricity Generation Mediated by Molecular Interactions with Low Dimensional Carbon Materials—A Mechanistic Perspective. Advanced Energy Materials, 2018, 8, 1802212.	10.2	47
678	Temperature Effects on the Efficiency of Dickson Charge Pumps for Radio Frequency Energy Harvesting. IEEE Access, 2018, 6, 65729-65736.	2.6	20
679	Secure Energy Efficiency for NOMA Based Cognitive Radio Networks With Nonlinear Energy Harvesting. IEEE Access, 2018, 6, 62707-62716.	2.6	53
680	A Novel Beamforming Design for Transmission Power Minimization in SWIPT System. , 2018, , .		0
681	Performance Analysis of SWIPT Relay Systems Over Nakagami-m Fading Channels with Non-linear Energy Harvester and Hybrid Protocol. , 2018, , .		5
682	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.	0.8	4
683	Slotted ALOHA for Wireless Powered Communication Networks. IEEE Access, 2018, 6, 53342-53355.	2.6	17
684	RF Energy Harvesting and Information Transmission Based on NOMA for Wireless Powered IoT Relay Systems. Sensors, 2018, 18, 3254.	2.1	28
685	Full-duplex wireless-powered jammer aided secure communication for cognitive radio networks. Physical Communication, 2018, 31, 103-112.	1.2	2
686	Resource Allocation and Relay Selection for Multi-User OFDM-Based Cooperative Networks with SWIPT. , 2018, , .		3
687	Fractional Time Exploitation for Serving IoT Users with Guaranteed QoS by 5G Spectrum. IEEE Communications Magazine, 2018, 56, 128-133.	4.9	97
688	Performance Analysis of Wireless Powered Incremental Relaying Networks With an Adaptive Harvest-Store-Use Strategy. IEEE Access, 2018, 6, 48531-48542.	2.6	7
689	Energy Harvesting in LoRaWAN: A Cost Analysis for the Industry 4.0. IEEE Communications Letters, 2018, 22, 2358-2361.	2.5	33

#	Article	IF	CITATIONS
690	Beamâ€domain SWIPT in massive MIMO system with energy onstrained terminals. IET Communications, 2018, 12, 1900-1909.	1.5	8
691	UAV-Enabled Mobile Edge Computing: Offloading Optimization and Trajectory Design. , 2018, , .		141
692	Block Consecutive Minimization Method with Wireless Energy Harvesting Relays. , 2018, , .		0
693	A Review on the Contemporary Research on Radio Frequency Energy Harvesting. International Journal of Engineering and Technology(UAE), 2018, 7, 52.	0.2	3
694	Ambient Backscatter Communications: A Contemporary Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 2889-2922.	24.8	523
695	Secrecy Performance of Wireless Powered Communication Networks With Multiple Eavesdroppers and Outdated CSI. IEEE Access, 2018, 6, 33774-33788.	2.6	14
696	Wireless Information and Power Exchange for Energy-Constrained Device-to-Device Communications. IEEE Internet of Things Journal, 2018, 5, 3175-3185.	5.5	22
697	Outage Probability and Throughput Analysis of SWIPT Enabled Cognitive Relay Network With Ambient Backscatter. IEEE Internet of Things Journal, 2018, 5, 3198-3208.	5.5	45
698	Energy and Spectral Efficient Cognitive Radio Sensor Networks for Internet of Things. IEEE Internet of Things Journal, 2018, 5, 3220-3233.	5.5	75
699	A comprehensive survey on UHF RFID rectifiers and investigating the effect of device threshold voltage on the rectifier performance. Analog Integrated Circuits and Signal Processing, 2018, 96, 21-38.	0.9	2
700	Efficient data collection in wireless powered communication networks with node throughput demands. Computer Communications, 2018, 126, 1-10.	3.1	14
701	Hybrid Time-Switching and Power Splitting SWIPT for Full-Duplex Massive MIMO Systems: A Beam-Domain Approach. IEEE Transactions on Vehicular Technology, 2018, 67, 7257-7274.	3.9	107
702	An Efficient Double-Sourced Energy Transfer Scheme for Mobility-Constrained IoT Applications. IEICE Transactions on Communications, 2018, E101.B, 2213-2221.	0.4	0
703	Estimation of energy harvesting capabilities for RF and other environmental sources. , 2018, , .		2
704	Secrecy Outage Performance Analysis for Energy Harvesting Sensor Networks With a Jammer Using Relay Selection Strategy. IEEE Access, 2018, 6, 23406-23419.	2.6	45
705	Wireless energy transfer to a pair of energy receivers using signal strength feedback. , 2018, , .		2
706	Biodiesel: Sources, Production, Emissions, and Policies. Green Energy and Technology, 2018, , 123-174.	0.4	3
707	Performance Analysis of RF-Powered Cognitive Radio Networks with Integrated Ambient Backscatter Communications. Wireless Communications and Mobile Computing, 2018, 2018, 1-16.	0.8	9

#	Article	IF	CITATIONS
708	Access Mechanism in Wireless Powered Communication Networks With Harvesting Access Point. IEEE Access, 2018, 6, 37556-37567.	2.6	9
709	Utilityâ€based cooperative spectrum leasing scheme for CR networks with hybrid energy supplies. IET Communications, 2018, 12, 509-517.	1.5	2
710	Modelling and Performance Analysis of Wireless LAN Enabled by RF Energy Transfer. IEEE Transactions on Communications, 2018, 66, 5756-5772.	4.9	22
711	Stackelberg Game for Distributed Time Scheduling in RF-Powered Backscatter Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2018, 17, 5606-5622.	6.1	56
712	Improved Energy Efficiency of Massive MIMO-OFDM in Battery-Limited IoT Networks. IEEE Access, 2018, 6, 38147-38160.	2.6	24
713	Green cell-less design for RF-wireless power transfer networks. , 2018, , .		8
714	New Reconfigurable Nonlinear Energy Harvester: Boosting Rate-Energy Tradeoff. , 2018, , .		5
715	Optimal secrecy throughput and efficient energy harvesting for SWIPT system. , 2018, , .		1
716	Intercept Probability Analysis of Wireless Powered Relay System in kappa-mu Fading. , 2018, , .		8
717	Dual Mode SWIPT: Waveform Design and Transceiver Architecture with Adaptive Mode Switching Policy. , 2018, , .		9
718	Optimization for Maximizing Sum Secrecy Rate in SWIPT-Enabled NOMA Systems. IEEE Access, 2018, 6, 43440-43449.	2.6	27
719	Multi-Band RF Energy and Spectrum Harvesting in Cognitive Radio Networks. , 2018, , .		12
720	Uplink Resource Allocation in Mobile Edge Computing-Based Heterogeneous Networks with Multi-Band RF Energy Harvesting. , 2018, , .		6
721	Cognitive wireless powered communication networks with secondary user selection and primary QoS constraint. IET Communications, 2018, 12, 1873-1879.	1.5	6
722	Performance Analysis of Wireless-Powered Relaying with Ambient Backscattering. , 2018, , .		24
723	Throughput maximization in wireless powered communication networks with minimum node throughput requirement. International Journal of Communication Systems, 2018, 31, e3775.	1.6	3
724	Joint Beamforming Design and Time Allocation for Wireless Powered Asymmetric Two-Way Multirelay Network. IEEE Transactions on Vehicular Technology, 2018, 67, 9641-9655.	3.9	7
725	Energy-Efficient Beamforming and Time Allocation in Wireless Powered Communication Networks. , 2018, , .		0

#	Article	IF	CITATIONS
726	Integrated Data and Energy Communication Network: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 3169-3219.	24.8	98
727	A Hybrid Power Line/Wireless Dual-Hop System With Energy Harvesting Relay. IEEE Internet of Things Journal, 2018, 5, 4201-4211.	5.5	20
728	Resource Allocation in SWIPT Networks Under a Nonlinear Energy Harvesting Model: Power Efficiency, User Fairness, and Channel Nonreciprocity. IEEE Transactions on Vehicular Technology, 2018, 67, 8466-8480.	3.9	34
729	A novel method for energy harvesting simulation based on scenario generation. AIP Conference Proceedings, 2018, , .	0.3	0
730	A Wide Input Range Buck-Boost DC–DC Converter Using Hysteresis Triple-Mode Control Technique with Peak Efficiency of 94.8% for RF Energy Harvesting Applications. Energies, 2018, 11, 1618.	1.6	9
731	User Clustering for Wireless Powered Communication Networks with Non-Orthogonal Multiple Access. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1146-1150.	0.2	2
732	Secrecy Energy Efficiency Optimization for MIMO SWIPT Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1141-1145.	0.2	1
733	Performance of EH Protocols in Two-Hop Networks With a Battery-Assisted EH Relay. IEEE Transactions on Vehicular Technology, 2018, 67, 10022-10026.	3.9	8
734	Optimizing the Energy and Throughput of a Water-Quality Monitoring System. Sensors, 2018, 18, 1198.	2.1	35
735	Data Gathering and Energy Transfer Dilemma in UAV-Assisted Flying Access Network for IoT. Sensors, 2018, 18, 1519.	2.1	28
736	Performance Analysis of Different Multiband RF Energy Harvesting Systems for Wireless Sensor Networks. Lecture Notes in Computer Science, 2018, , 521-530.	1.0	0
737	Secrecy Rate Optimization for Cooperative Cognitive Radio Networks Aided by a Wireless Energy Harvesting Jammer. IEEE Access, 2018, 6, 34127-34134.	2.6	26
738	Optimal Aging–Aware Channel Access and Power Allocation for Battery–Powered Devices With Radio Frequency Energy Harvesting. IEEE Transactions on Communications, 2018, 66, 5773-5787.	4.9	5
739	Design and simulation of the antenna for RF energy harvesting systems. , 2018, , .		7
740	Recent advances in the design and development of radio frequency-based energy harvester for powering wireless sensors: a review. Journal of Electromagnetic Waves and Applications, 2018, 32, 2110-2134.	1.0	18
741	Optimal Spectrum Sensing Policy in RF-Powered Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 9557-9570.	3.9	11
742	Optimal coordinated beamforming with artificial noise for secure SWIPT in multi-cell networks. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	6
743	Coordinated Beamforming With Artificial Noise for Secure SWIPT Under Non-Linear EH Model: Centralized and Distributed Designs. IEEE Journal on Selected Areas in Communications, 2018, 36, 1544-1563.	9.7	30

#	Article	IF	CITATIONS
744	A Secret-Key-Aided Scheme to Secure Transmissions From Single-Antenna RF-EH Source Nodes. IEEE Wireless Communications Letters, 2018, 7, 238-241.	3.2	1
745	Transmit Precoding and Receive Power Splitting for Harvested Power Maximization in MIMO SWIPT Systems. IEEE Transactions on Green Communications and Networking, 2018, 2, 774-786.	3.5	27
746	Cooperative spectrum sharingâ€based relaying protocols with wireless energy harvesting cognitive user. IET Communications, 2018, 12, 838-847.	1.5	24
747	Achieving Green Transmission With Energy Harvesting Based Cooperative Communication. IEEE Access, 2018, 6, 27507-27517.	2.6	12
748	Backscatter Relay Communications Powered by Wireless Energy Beamforming. IEEE Transactions on Communications, 2018, 66, 3187-3200.	4.9	94
749	Performance Analysis of Wireless Powered DF Relay System Under Nakagami-\$m\$ Fading. IEEE Transactions on Vehicular Technology, 2018, 67, 7073-7085.	3.9	10
750	Performance enhancement for harvest-to-transmit cognitive multi-hop networks with best path selection method under presence of eavesdropper. , 2018, , .		5
751	Performance enhancement for harvest-to-transmit cognitive multi-hop networks with best path selection method under presence of eavesdropper. , 2018, , .		4
752	Simultaneous Wireless Information and Power Transfer in Cellular Two-Way Relay Networks With Massive MIMO. IEEE Access, 2018, 6, 29262-29270.	2.6	12
753	Computation Rate Maximization for Wireless Powered Mobile-Edge Computing With Binary Computation Offloading. IEEE Transactions on Wireless Communications, 2018, 17, 4177-4190.	6.1	618
754	Wireless energy harvesting: Empirical results and practical considerations for Internet of Things. Journal of Network and Computer Applications, 2018, 121, 149-158.	5.8	45
755	Auction-Based Design and Analysis of Wireless Power Transfer Network With Critical Users. IEEE Communications Letters, 2018, 22, 2374-2377.	2.5	2
756	Relaying protocols for bufferâ€aided energy harvesting wireless cooperative networks. IET Networks, 2018, 7, 109-118.	1.1	24
757	Energy Efficiency Optimization for CoMP-SWIPT Heterogeneous Networks. IEEE Transactions on Communications, 2018, 66, 6368-6383.	4.9	45
758	Adaptive Mode Switching Algorithm for Dual Mode SWIPT with Duty Cycle Operation. , 2018, , .		4
759	On the Performance of NOMA in the Two-User SWIPT System. IEEE Transactions on Vehicular Technology, 2018, 67, 11258-11263.	3.9	37
760	Resource Allocation for Secure MISO-NOMA Cognitive Radios Relying on SWIPT. , 2018, , .		19
761	Computation Rate Maximization in UAV-Enabled Wireless-Powered Mobile-Edge Computing Systems. IEEE Journal on Selected Areas in Communications, 2018, 36, 1927-1941.	9.7	582

#	Article	IF	CITATIONS
762	Research on the Energy Allocation Scheme Based on SWIPT Relaying System. Mobile Networks and Applications, 2018, 23, 1449-1458.	2.2	1
763	Tradeoffs for Data Collection and Wireless Energy Transfer Dilemma in IoT Environments. , 2018, , .		5
764	Wireless-Powered Distributed Spatial Modulation With Energy Recycling and Finite-Energy Storage. IEEE Transactions on Wireless Communications, 2018, 17, 6645-6662.	6.1	8
765	SWIPT Using Hybrid ARQ Over Time Varying Channels. IEEE Transactions on Green Communications and Networking, 2018, 2, 1087-1100.	3.5	5
766	The charger positioning problem in clustered RF-power harvesting wireless sensor networks. Ad Hoc Networks, 2018, 78, 42-53.	3.4	11
767	SEHS: Simultaneous Energy Harvesting and Sensing Using Piezoelectric Energy Harvester. , 2018, , .		23
768	Beamforming for Secure Wireless Information and Power Transfer in Terrestrial Networks Coexisting With Satellite Networks. IEEE Signal Processing Letters, 2018, 25, 1166-1170.	2.1	24
769	Towards Immortal Wireless Sensor Networks by Optimal Energy Beamforming and Data Routing. IEEE Transactions on Wireless Communications, 2018, 17, 5338-5352.	6.1	14
770	Parallel aggregated MAB framework for source selection in multi-antenna RF harvesting circuit. , 2018, , .		1
771	Performance analysis of ambient backscatter communications in RF-powered cognitive radio networks. , 2018, , .		10
772	Wireless energy and information transfer in networks with hybrid ARQ. , 2018, , .		2
773	A multi-leader stackelberg game for two-hop systems with wireless energy transfer. , 2018, , .		3
774	Optimal Transmission Policy in Decoupled RF Energy Harvesting Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 516-520.	0.2	0
775	A joint sensing and transmission power control policy for RF energy harvesting cognitive radio networks. International Journal of Communication Systems, 2018, 31, e3715.	1.6	2
776	Wireless transmission design with neural network for radio-frequency energy harvesting. , 2018, , .		1
777	Two-slope path-loss design of energy harvesting in random cognitive radio networks. Computer Networks, 2018, 142, 128-141.	3.2	12
778	Optimal resource allocation in ultra-low power fog-computing SWIPT-based networks. , 2018, , .		15
779	Information Processing and Wireless Energy Harvesting in Interference-Aware Public Safety Networks. Wireless Personal Communications, 2018, <u>103, 2071-2091.</u>	1.8	0

#	Article	IF	CITATIONS
780	Reverse Power Delivery Network for Wireless Power Transfer. IEEE Microwave and Wireless Components Letters, 2018, 28, 624-626.	2.0	4
781	Wireless-Powered Two-Way Relaying Protocols for Optimizing Physical Layer Security. IEEE Transactions on Information Forensics and Security, 2019, 14, 162-174.	4.5	41
782	Energy Efficient Resource Allocation Algorithm in Energy Harvesting-Based D2D Heterogeneous Networks. IEEE Internet of Things Journal, 2019, 6, 557-567.	5.5	130
783	A Survey on Emerging SDN and NFV Security Mechanisms for IoT Systems. IEEE Communications Surveys and Tutorials, 2019, 21, 812-837.	24.8	279
784	Transmission delay minimization in wireless powered communication systems. Wireless Networks, 2019, 25, 1415-1430.	2.0	3
785	Optimization of Relaying Wireless Sensor Network With RF Energy Harvesting. , 2019, , .		2
786	Power Minimization in SWIPT Networks With Coexisting Power-Splitting and Time-Switching Users Under Nonlinear EH Model. IEEE Internet of Things Journal, 2019, 6, 8853-8869.	5.5	37
787	Toward Realization of Long-Range Wireless-Powered Sensor Networks. IEEE Wireless Communications, 2019, 26, 184-192.	6.6	51
788	A Secure Wireless Information and Energy Cooperation Transmission Strategy in Spectrum Sharing Networks With Untrusted Dual-Relay. IEEE Access, 2019, 7, 115487-115504.	2.6	5
789	An RF-to-DC Rectifier With High Efficiency Over Wide Input Power Range for RF Energy Harvesting Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4862-4875.	3.5	43
790	Joint Multiple Relay Selection and Time Slot Allocation Algorithm for the EH-Abled Cognitive Multi-User Relay Networks. IEEE Access, 2019, 7, 111993-112007.	2.6	12
791	Energy Efficiency Optimization in OFDM based Two-Way DF Relaying Networks with Energy Harvesting. , 2019, , .		0
792	The Effect of Nanowire Dimensions on Resonance Frequency of ZnO-Based Nanogenerator. , 2019, , .		0
793	Exploiting Backscatter-Aided Relay Communications With Hybrid Access Model in Device-to-Device Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 835-848.	4.9	26
794	Optimal 1D Trajectory Design for UAV-Enabled Multiuser Wireless Power Transfer. IEEE Transactions on Communications, 2019, 67, 5674-5688.	4.9	92
795	Modeling the Energy Harvested by an RF Energy Harvesting System Using Gamma Processes. Mathematical Problems in Engineering, 2019, 2019, 1-12.	0.6	10
796	Towards secure 5G networks: A Survey. Computer Networks, 2019, 162, 106871.	3.2	63
797	Beamforming and Resource Allocation for a Multi-Pair Wireless Powered Two-Way Relay Network With Fairness. IEEE Access, 2019, 7, 2799-2810.	2.6	4

#	Article	IF	CITATIONS
798	Optimal Relaying in Energy Harvesting Wireless Networks With Wireless-Powered Relays. IEEE Transactions on Green Communications and Networking, 2019, 3, 1072-1086.	3.5	3
799	Optimal Charge Scheduling for Energy-Constrained Wireless-Powered Network. , 2019, , .		2
800	Performance evaluation of energy harvesting based DF system over Nakagami- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e653" altimg="si3.svg"&gt;<mml:mi>m</mml:mi> fading channels in the presence of co-channel interferences. Physical Communication, 2019, 36, 100758.</mml:math 	1.2	2
801	Energy-efficient secure multiuser scheduling in energy harvesting untrusted relay networks. Journal of Communications and Networks, 2019, 21, 365-375.	1.8	14
802	Battery-Less Location Tracking for Internet of Things: Simultaneous Wireless Power Transfer and Positioning. IEEE Internet of Things Journal, 2019, 6, 9147-9164.	5.5	24
803	Optimizing Charging Efficiency and Maintaining Sensor Network Perpetually in Mobile Directional Charging. Sensors, 2019, 19, 2657.	2.1	5
804	SmarTEG: An Autonomous Wireless Sensor Node for High Accuracy Accelerometer-Based Monitoring. Sensors, 2019, 19, 2747.	2.1	21
805	Physical-Layer Security of 5G Wireless Networks for IoT: Challenges and Opportunities. IEEE Internet of Things Journal, 2019, 6, 8169-8181.	5.5	230
806	Energy Provision Minimization in Wireless Powered Communication Networks With Node Throughput Requirement. IEEE Transactions on Vehicular Technology, 2019, 68, 7057-7070.	3.9	21
807	Optimal placement of drones for fast sensor energy replenishment using wireless power transfer. , 2019, , .		8
808	Energy-Efficient Resource Allocation for Wirelessly Powered Backscatter Communications. IEEE Communications Letters, 2019, 23, 1418-1422.	2.5	65
809	A Self-Powered PMFC-Based Wireless Sensor Node for Smart City Applications. Wireless Communications and Mobile Computing, 2019, 2019, 1-10.	0.8	19
810	Energy Harvesting Techniques for Wireless Sensor Networks/Radio-Frequency Identification: A Review. Symmetry, 2019, 11, 865.	1.1	72
811	Suitability of Communication Technologies for Harvester-Powered IoT-Nodes. , 2019, , .		1
812	Passive Relaying Game for Wireless Powered Internet of Things in Backscatter-Aided Hybrid Radio Networks. IEEE Internet of Things Journal, 2019, 6, 8933-8944.	5.5	21
813	On the performance of wireless powered communication networks over generalized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e194" altimg="si6.svg"&gt;<mml:mrow><mml:mi>l<sup>2</sup></mml:mi><mml:mo <br="" linebreak="goodbreak">linebreakstyle="after"&gt;â<sup>2</sup></mml:mo><mml:mi>l<sup>1</sup>/4</mml:mi></mml:mrow> fading channels.</mml:math 	1.2	9
814	Simultaneous harvest-and-transmit ambient backscatter communications under Rayleigh fading. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	39
815	A Neural Network-Based Model of Radio Frequency Energy Harvesting Characteristics in a Self-Powered Food Monitoring System. IEEE Sensors Journal, 2019, 19, 8813-8823.	2.4	12

			_
#	ARTICLE	IF	CITATIONS
816	Relay-Centric Two-Hop Networks With Asymmetric Wireless Energy Transfer: Stackelberg Games. IEEE Transactions on Green Communications and Networking, 2019, 3, 739-750.	3.5	3
817	Research on the Maximization of Total Information Rate Based on Energy Allocation in Multi-user SWIPT Relaying System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 460-471.	0.2	0
818	Hybrid rectennas of printed dipole type on Double Negative Dielectric Media for powering sensors via RF ambient energy harvesting. AEU - International Journal of Electronics and Communications, 2019, 108, 242-250.	1.7	12
819	Relay-Energy Access Points for Internet-of-Things Wireless Energy Harvesting and Communications. , 2019, , .		0
820	Adaptive Power Control for D2D Communications in Downlink SWIPT Networks With Partial CSI. IEEE Wireless Communications Letters, 2019, 8, 1333-1336.	3.2	16
821	Modeling of SWIPT System with ASK Modulation in LabVIEW. , 2019, , .		1
822	Optimal Resource Allocation for Energy Harvesting Cognitive Radio Network with Q Learning. Lecture Notes in Computer Science, 2019, , 548-560.	1.0	1
823	Contextual Learning-Based Wireless Power Transfer Beam Scheduling for IoT Devices. IEEE Internet of Things Journal, 2019, 6, 9606-9620.	5.5	14
824	Secrecy outage in a two-hop decode and forward relay network with accumulated harvested energy. Physical Communication, 2019, 36, 100792.	1.2	4
825	Energy harvesting and wireless power transmission by a hybridized electromagnetic–triboelectric nanogenerator. Energy and Environmental Science, 2019, 12, 2678-2684.	15.6	128
826	User grouping and resource allocation in multiuser MIMO systems under SWIPT. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	1
827	5.8 GHz High-Efficiency RF–DC Converter Based on Common-Ground Multiple-Stack Structure. Sensors, 2019, 19, 3257.	2.1	13
828	Cloud-Aided Cognitive Ambient Backscatter Wireless Sensor Networks. IEEE Access, 2019, 7, 57399-57414.	2.6	32
829	An Efficient Design for NOMA-Assisted MISO-SWIPT Systems with AC Computing. IEEE Access, 2019, 7, 97094-97105.	2.6	8
830	Learning Frameworks for Dynamic Joint RF Energy Harvesting and Channel Access. IEEE Access, 2019, 7, 84524-84535.	2.6	2
831	Efficient Energy Supply Using Mobile Charger for Solar-Powered Wireless Sensor Networks. Sensors, 2019, 19, 2679.	2.1	7
832	Optimal Resource and Power Allocation With Relay Selection for RF/RE Energy Harvesting Relay-Aided D2D Communication. IEEE Access, 2019, 7, 89670-89686.	2.6	26
833	Energy Harvesting For Wearable Devices: A Review. IEEE Sensors Journal, 2019, 19, 9047-9062.	2.4	130

#	Article	IF	CITATIONS
834	Cognitive Non-Orthogonal Multiple Access With Energy Harvesting: An Optimal Resource Allocation Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 7080-7095.	3.9	32
835	Performance Analysis of Multihop Multirelay Multiuser CRNs with Energy Harvesting. , 2019, , .		3
836	A 2.77 μW Ambient RF Energy Harvesting Using DTMOS Cross-Coupled Rectifier on 65 nm SOTB and Wide Bandwidth System Design. Electronics (Switzerland), 2019, 8, 1173.	1.8	3
837	Analysis of energy transfer efficiency in UAV-enabled wireless networks. Physical Communication, 2019, 37, 100849.	1.2	10
838	RF Energy Harvesting in Hybrid Two-Way Relaying Systems With Hardware Impairments. IEEE Transactions on Vehicular Technology, 2019, 68, 11792-11805.	3.9	35
839	Broadcast Scheduling in Battery-Free Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2019, 15, 1-34.	2.3	16
840	Limitations of wireless power transfer technologies for mobile robots. Wireless Power Transfer, 2019, 6, 175-189.	0.9	20
841	Cooperative Spectrum Sharing on SWIPT-Based DF Relay: An Energy-Aware Retransmission Approach. IEEE Access, 2019, 7, 120802-120816.	2.6	9
842	Genetic Algorithm based UAV Trajectory Design in Wireless Power Transfer Systems. , 2019, , .		17
843	Bounds on Path Exposure in Energy Harvesting Wireless Sensor Networks. , 2019, , .		5
844	An MDP-Based Wireless Energy Harvesting Decision Strategy for Mobile Device in Edge Computing. IEEE Network, 2019, 33, 109-115.	4.9	15
845	Physical Layer Security by Exploiting Interference and Heterogeneous Signaling. IEEE Wireless Communications, 2019, 26, 26-31.	6.6	14
846	Design of a 900 MHz Dual-Mode SWIPT for Low-Power IoT Devices. Sensors, 2019, 19, 4676.	2.1	11
847	Capacity Enhancement for Energy-Harvesting Cognitive Radio Networks: A NOMA-Enabled Joint Design. , 2019, , .		1
848	Range-extended wireless food spoilage monitoring with a high energy efficient battery-free sensor tag. Sensors and Actuators A: Physical, 2019, 299, 111632.	2.0	6
849	Sum-Throughput Maximization With QoS Constraints for Cooperative WPCNs. IEEE Access, 2019, 7, 130622-130637.	2.6	3
850	Time-to-Recharge Analysis for Energy-Relay-Assisted Energy Harvesting. IEEE Access, 2019, 7, 139924-139937.	2.6	6
851	On the Performance of Low-Altitude UAV-Enabled Secure AF Relaying With Cooperative Jamming and SWIPT. IEEE Access, 2019, 7, 153060-153073.	2.6	56

#	Article	IF	Citations
852	Performance Analysis of Delay-Constrained Traffic in a Cognitive Radio Network With RF Energy Harvesting JEFE Communications Letters, 2019, 23, 2177-2181	2.5	5
853	Cost-Minimum Charger Placement for Wireless Power Transfer. , 2019, , .		2
854	RF Energy Harvesting System Using Monopole Antennas. , 2019, , .		1
855	Physical Layer Security under Accumulated Harvested Energy from RF Source. , 2019, , .		0
856	Simultaneous Wireless Information and Power Transfer for Decode-and-Forward Multihop Relay Systems in Energy-Constrained IoT Networks. IEEE Internet of Things Journal, 2019, 6, 9413-9426.	5.5	31
857	Ultra-Small Cell Networks With Collaborative RF and Lightwave Power Transfer. IEEE Transactions on Communications, 2019, 67, 6243-6255.	4.9	28
858	Energy-Neutral Wireless-Powered Networks. IEEE Wireless Communications Letters, 2019, 8, 1373-1376.	3.2	10
859	Resource Allocation Strategy Based on RF Energy Harvesting in Heterogeneous Networks. , 2019, , .		1
860	Performance Analysis of Multistage Voltage Doubler Rectifier for RF Energy Harvesting. , 2019, , .		3
861	On the Fairness Performance of NOMA-Based Wireless Powered Communication Networks. , 2019, , .		8
862	Sustainable Wireless IoT Networks With RF Energy Charging Over Wi-Fi (CoWiFi). IEEE Internet of Things Journal, 2019, 6, 10205-10218.	5.5	26
863	Centralized and Distributed Cognitive Relay-Selection Schemes for SWIPT Cognitive Networks. IEEE Transactions on Communications, 2019, 67, 7431-7443.	4.9	4
864	Ambient Backscatter-Assisted Wireless-Powered Relaying. IEEE Transactions on Green Communications and Networking, 2019, 3, 1087-1105.	3.5	26
865	Energy Trading Scheme Based on Contract Theory in Cooperative Relay Network. , 2019, , .		0
866	Information-Energy Region of Mobile SWIPT Networks with Nonlinear EH Model. , 2019, , .		0
867	A review on design improvements and techniques for mechanical energy harvesting using piezoelectric and electromagnetic schemes. Energy Conversion and Management, 2019, 199, 111973.	4.4	175
868	Reinforcement Learning for Interference Avoidance Game in RF-Powered Backscatter Communications. , 2019, , .		9
869	Full-Duplex With Self-Energy Recycling in the RF Powered Multi-Antenna Relay Channels. IEEE Signal Processing Letters, 2019, 26, 1516-1520.	2.1	7

#	Article	IF	CITATIONS
870	Low-Power Receiver Architecture for 5G and IoT-Oriented Wireless Information and Power Transfer Applications. , 2019, , .		3
871	Optimal Finite Horizon Sensing for Wirelessly Powered Devices. IEEE Access, 2019, 7, 131473-131487.	2.6	1
872	Design of Double Resonant Coil Ferrite Rod Antenna for RF Energy Harvesting on MF Band. , 2019, , .		1
873	Learningâ€based secure communication against active eavesdropper in dynamic environment. IET Communications, 2019, 13, 2235-2242.	1.5	2
874	Rate Control for Wireless-Powered Communication Network With Reliability and Delay Constraints. IEEE Transactions on Wireless Communications, 2019, 18, 5791-5805.	6.1	5
875	Secure Transmission for SWIPT IoT Systems With Full-Duplex IoT Devices. IEEE Internet of Things Journal, 2019, 6, 10915-10933.	5.5	63
876	Optimal Power Control and Scheduling for Energy Harvesting Wireless Networked Control Systems. , 2019, , .		1
877	Wireless Power Transfer Under Secure Communication with Multiple Antennas and Eavesdroppers. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 208-220.	0.2	6
878	Power Minimization Resource Allocation for Underlay MISO-NOMA SWIPT Systems. IEEE Access, 2019, 7, 17247-17255.	2.6	46
879	Robust Design of AC Computing-Enabled Receiver Architecture for SWIPT Networks. IEEE Wireless Communications Letters, 2019, 8, 801-804.	3.2	13
880	Performance Analysis of MICS-Based RF Wireless Power Transfer System for Implantable Medical Devices. IEEE Access, 2019, 7, 11775-11784.	2.6	24
881	Resource Allocation in Wireless Powered IoT Networks. IEEE Internet of Things Journal, 2019, 6, 4935-4945.	5.5	47
882	A Survey on Simultaneous Wireless Information and Power Transfer With Cooperative Relay and Future Challenges. IEEE Access, 2019, 7, 19166-19198.	2.6	116
883	Backscatter Communications: Inception of the Battery-Free Era—A Comprehensive Survey. Electronics (Switzerland), 2019, 8, 129.	1.8	50
884	A Deep Learning-Based Approach to Power Minimization in Multi-Carrier NOMA With SWIPT. IEEE Access, 2019, 7, 17450-17460.	2.6	98
885	Jammer-Assisted Legitimate Eavesdropping in Wireless Powered Suspicious Communication Networks. IEEE Access, 2019, 7, 20363-20380.	2.6	25
886	A systems engineering Persistence Of Vision teaching module integrating coordinated sensing, actuation, multithreaded computation, custom PCB design, and inductive power transfer. , 2019, , .		1
887	Energy-Perceptive MAC for Wireless Power and Information Transfer. IEEE Wireless Communications Letters, 2019, 8, 644-647.	3.2	3

#	Article	IF	CITATIONS
888	Optimal Power Allocation for Wireless Sensor Powered by Dedicated RF Energy Source. IEEE Transactions on Vehicular Technology, 2019, 68, 2791-2801.	3.9	30
889	Resource Allocation for Wireless-Powered IoT Networks With Short Packet Communication. IEEE Transactions on Wireless Communications, 2019, 18, 1447-1461.	6.1	105
890	Robust Optimum and Near-Optimum Beamformers for Decode-and-Forward Full-Duplex Multi-Antenna Relay With Self-Energy Recycling. IEEE Transactions on Wireless Communications, 2019, 18, 1566-1580.	6.1	13
891	Performance analysis of mixed RF/FSO cooperative systems with wireless power transfer. Physical Communication, 2019, 33, 187-198.	1.2	7
892	Broadcast Approach for the Single-User Energy Harvesting Channel. IEEE Transactions on Communications, 2019, 67, 3192-3204.	4.9	4
893	Outage and Throughput of WPCN-SWIPT Networks with Nonlinear EH Model in Nakagami-m Fading. Electronics (Switzerland), 2019, 8, 138.	1.8	7
894	Energy harvesting-based data uploading for Internet of Things. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	2
895	Capttery. , 2019, , .		5
896	Improving Lifetime of Cell-Edge Smart Sensing Devices by Incentive Architecture Based on Dynamic Charging. IEEE Access, 2019, 7, 72703-72715.	2.6	7
897	Outage Minimized Resource Allocation for Multiuser OFDM Systems With SWIPT. IEEE Access, 2019, 7, 79714-79725.	2.6	18
898	A Data-Filtering Approach for Large-Scale Integrated RFID and Sensor Networks. Lecture Notes in Computer Science, 2019, , 69-81.	1.0	1
899	Backscatter-Aided Cooperative Relay Communications in Wireless-Powered Hybrid Radio Networks. IEEE Network, 2019, 33, 234-241.	4.9	37
900	NOMA Throughput and Energy Efficiency in Energy Harvesting Enabled Networks. IEEE Transactions on Communications, 2019, 67, 6499-6511.	4.9	38
901	A New Trend to Power Up Next-Generation Internet of Things (IoT) Devices: â€~Rectenna'. Studies in Systems, Decision and Control, 2019, , 331-356.	0.8	2
902	On Sampling Time Maximization in Wireless Powered Internet of Things. IEEE Transactions on Green Communications and Networking, 2019, 3, 641-650.	3.5	9
903	Wireless Information and Power Transfer in Relay-Assisted Downlink Massive MIMO. IEEE Transactions on Green Communications and Networking, 2019, 3, 789-805.	3.5	13
904	A Novel Information and Energy Cooperation Transmission Scheme in Cognitive Spectrum Sharing-Based D2D Communication Systems. IEEE Access, 2019, 7, 72316-72328.	2.6	11
905	Emerging Zero-Standby Solutions for Miscellaneous Electric Loads and the Internet of Things. Electronics (Switzerland), 2019, 8, 570.	1.8	16

#	Article	IF	Citations
906	Efficient energy resource utilization in a wireless sensor system for monitoring water quality. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	21
907	Acoustic power transfer for biomedical implants using piezoelectric receivers: effects of misalignment and misorientation. Journal of Micromechanics and Microengineering, 2019, 29, 084004.	1.5	16
908	Performance analysis and optimisation of wireless powered decodeâ€andâ€forward considering circuit power consumption. IET Communications, 2019, 13, 1179-1184.	1.5	3
909	Transmit power allocation of energy transmitters for throughput maximisation in wireless powered communication networks. IET Communications, 2019, 13, 1200-1206.	1.5	6
910	Subcarrier Allocation of Cognitive OFDM Systems with SWIPT-Enabled Relay. Lecture Notes in Electrical Engineering, 2019, , 317-320.	0.3	0
911	Mobility, Residual Energy, and Link Quality Aware Multipath Routing in MANETs with Q-learning Algorithm. Applied Sciences (Switzerland), 2019, 9, 1582.	1.3	38
912	Performance Analysis of RF Energy Harvesting and Information Transmission Based on NOMA With Interfering Signal for IoT Relay Systems. IEEE Sensors Journal, 2019, 19, 7668-7682.	2.4	50
913	Energy Harvesting Technologies and Equivalent Electronic Structural Models - Review. Electronics (Switzerland), 2019, 8, 486.	1.8	47
914	An Enhanced Multiplication of RF Energy Harvesting Efficiency Using Relay Resonator for Food Monitoring. Sensors, 2019, 19, 1963.	2.1	8
915	HD/FD and DF/AF with Fixed-Gain or Variable-Gain Protocol Switching Mechanism over Cooperative NOMA for Green-Wireless Networks. Sensors, 2019, 19, 1845.	2.1	7
916	Joint Transmission Scheduling and Power Allocation in Wirelessly Powered Hybrid Radio Networks. , 2019, , .		2
917	An Energy-Efficient Clustering and Routing Framework for Disaster Relief Network. IEEE Access, 2019, 7, 56520-56532.	2.6	30
918	Simultaneous Sensor Placement and Scheduling for Fusion-Based Detection in RF-Powered Sensor Networks. IEEE Internet of Things Journal, 2019, 6, 5595-5606.	5.5	2
919	Cooperative Communication in Physical Layer Security: Technologies and Challenges. Wireless Personal Communications, 2019, 108, 811-837.	1.8	16
920	A Triple-Parameter Based Multi-Relay Selection Strategy for Wireless-Powered Cooperative Network. IEEE Access, 2019, 7, 27883-27892.	2.6	2
921	Opportunistic Ambient Backscatter Communication in RF-Powered Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 413-426.	4.9	56
922	On Optimizing VLC Networks for Downlink Multi-User Transmission: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 2947-2976.	24.8	158
923	Novel SWIPT Schemes for 5G Wireless Networks. Sensors, 2019, 19, 1169.	2.1	24

#	Article	IF	CITATIONS
924	Performance Analysis of UAV Relay Assisted IoT Communication Network Enhanced With Energy Harvesting. IEEE Access, 2019, 7, 38738-38747.	2.6	123
925	Dynamic Spectrum Allocation and RF Energy Harvesting in Cognitive Radio Network. Advances in Intelligent Systems and Computing, 2019, , 731-739.	0.5	1
926	Energy-Adaptive Error Correcting for Dynamic and Heterogeneous Networks. Proceedings of the IEEE, 2019, 107, 765-777.	16.4	2
927	A modified Hilbert fractal resonator based rectenna design for CSM900 band RF energy harvesting applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21643.	0.8	19
928	Throughput Optimization for Wireless Powered Interference Channels. IEEE Transactions on Wireless Communications, 2019, 18, 2464-2476.	6.1	12
929	Tradeoff Between Secrecy Capacity and Harvested Energy for Secure Visible Light Communications With SWIPT. IEEE Access, 2019, 7, 29543-29552.	2.6	13
930	AC Computing Methodology for RF-Powered IoT Devices. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 1017-1028.	2.1	13
931	Optimal Design of RF Energy-Harvesting Network: Throughput and Delay Perspective. Sensors, 2019, 19, 145.	2.1	3
932	Secure Performance of an Untrusted AF Relay System with a Friendly Wireless Powered Jammer. Mobile Information Systems, 2019, 2019, 1-8.	0.4	0
933	Development of a battery-free ultrasonically powered functional electrical stimulator for movement restoration after paralyzing spinal cord injury. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 36.	2.4	29
934	Toward Green IoT: Energy Solutions and Key Challenges. IEEE Communications Magazine, 2019, 57, 104-110.	4.9	128
935	Strategic Access and Pricing in Internet of Things (IoT) Service With Energy Harvesting. IEEE Access, 2019, 7, 34655-34674.	2.6	11
936	On Complete Targets Coverage in RF-Harvesting Internet of Things Networks. IEEE Communications Letters, 2019, 23, 922-925.	2.5	7
937	Joint Optimal Power Allocation and Relay Selection Scheme in Energy Harvesting Two-Way Relaying Network. Future Internet, 2019, 11, 47.	2.4	3
938	Cooperative Transmission With Priority and Fairness in Edge Computing Systems. IEEE Access, 2019, 7, 44059-44069.	2.6	2
939	Security and reliability performance analysis for twoâ€way wireless energy harvesting based untrusted relaying with cooperative jamming. IET Communications, 2019, 13, 449-459.	1.5	17
940	Multi-Points Cooperative Relay in NOMA System with N-1 DF Relaying Nodes in HD/FD Mode for N User Equipments with Energy Harvesting. Electronics (Switzerland), 2019, 8, 167.	1.8	14
941	Compact circularly polarized beam-switching wireless power transfer system for ambient energy harvesting applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21642.	0.8	10

#	Article	IF	CITATIONS
942	System Outage Performance for Three-Step Two-Way Energy Harvesting DF Relaying. IEEE Transactions on Vehicular Technology, 2019, 68, 3600-3612.	3.9	22
943	Energy Efficiency Optimization for NOMA With SWIPT. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 452-466.	7.3	152
944	Fog-Assisted Multiuser SWIPT Networks: Local Computing or Offloading. IEEE Internet of Things Journal, 2019, 6, 5246-5264.	5.5	35
945	Average BER and resource allocation in wireless powered decodeâ€andâ€forward relay system. IET Communications, 2019, 13, 379-386.	1.5	4
946	The Efficient BackFi Transmission Design in Ambient Backscatter Communication Systems for IoT. IEEE Access, 2019, 7, 31397-31408.	2.6	33
947	Signal Detection for Ambient Backscatter Communication with OFDM Carriers. Sensors, 2019, 19, 517.	2.1	10
948	Outage Probability Analysis in Relaying Cooperative Systems with NOMA Considering Power Splitting. Symmetry, 2019, 11, 72.	1.1	5
949	270-degree arc-shaped piezoelectric energy converter in uniflow fluid environment. IOP Conference Series: Materials Science and Engineering, 2019, 531, 012026.	0.3	3
950	Cooperative Communication in Hybrid User Scenario incorporating Backscattering and Energy Harvesting. , 2019, , .		2
951	Secure Energy Efficiency in SWIPT Multicarrier Relay Transmission with Direct Links. , 2019, , .		0
952	Age-Based Utility Maximization for Wireless Powered Networks: A Stackelberg Game Approach. , 2019, , .		9
953	Selective OFDM Transmission for Simultaneous Wireless Information and Power Transfer. , 2019, , .		3
954	On Energy Harvesting of Hybrid TDMA-NOMA Systems. , 2019, , .		23
955	Power Allocation in Wireless Energy Harvesting Based Relaying Sensor Networks. , 2019, , .		3
956	VCEC: Velocity Control of Energy-Constrained RF-Based Wireless Charger in Sensor Networks with Multi-Depots Deployment. , 2019, , .		1
957	Simultaneous Wireless Information and Power Transfer in 5G Mobile Networks: A Survey. , 2019, , .		12
958	Backscatter-Aided Relay Communications in Wireless Powered Hybrid Radio Networks. , 2019, , .		6
959	Opportunistic Wireless Energy Transfer in Point-to-Point Links. , 2019, , .		0

#	Article	IF	CITATIONS
960	Construction of Big Data Hyperchaotic Mixed Encryption Model for Mobile Network Privacy. , 2019, , .		0
961	Decentralized Robust Beamforming and Power Splitting for Multi-Relay Assisted SWIPT Systems. , 2019, , .		1
962	Towards Intelligent IoT Networks: Reinforcement Learning for Reliable Backscatter Communications. , 2019, , .		24
963	A Practical Protocol for Wireless Powered Communications. , 2019, , .		1
964	Performance Analysis of RF Energy Harvesting in Decode-and-Forward Model with Co-Channel Interference Consideration. , 2019, , .		0
965	A 19.6 dB Input Power Range 403 MHz Rectifier Based on Quality Factor in Matching Technique. , 2019, , .		0
966	Multi-band multi-location RF power survey and ambient RF energy harvesting circuit. , 2019, , .		2
967	Clustering Structure Based Time Switching Power Control optimization for Energy Harvesting Ad-Hoc Networks. , 2019, , .		0
968	Performance of Battery-Assisted Energy Harvesting DF Relay over Nakagami-m Channels. , 2019, , .		0
969	RF Aerially Charging Scheduling for UAV Fleet : A Q-Learning Approach. , 2019, , .		11
970	Robust Energy Efficiency Optimization for SWIPT-enabled Heterogeneous NOMA Networks. , 2019, , .		5
971	Outage Probability Analysis for SWIPT Systems with Nonlinear Energy Harvesting Model. , 2019, , .		2
972	A Novel Wireless Information and Energy Transfer Protocol in Wireless Body Area Network with Two-way Relay. , 2019, , .		1
973	Collaborative Relay Beamforming with Direct Links in Wireless Powered Communications. , 2019, , .		5
974	A Three-Stage Stackelberg Game for Secure Communication with a Wireless Powered Jammer. , 2019, , .		2
975	Reinforcement Learning Approaches for IoT Networks with Energy Harvesting. , 2019, , .		1
976	Performance analysis of energy harvesting communications using multiple time slots. IET Communications, 2019, 13, 289-296.	1.5	8
977	Optimum SWIPT relaying in bidirectional nonâ€regenerative relay networks. IET Communications, 2019, 13, 679-686.	1.5	2

#	Article	IF	CITATIONS
978	Real-Time Power Control of Wireless Chargers in Battery-Free Body Area Networks. , 2019, , .		4
979	Implementation of a High-Efficient and Simple CPW Rectenna at the 2.45 GHz ISM Radio Band. , 2019, , .		0
980	Backscatter-Assisted Hybrid Relaying Strategy for Wireless Powered IoT Communications. , 2019, , .		9
981	Effects of the Temperature on the Efficiency Degradation in Multi-stage RF Energy Harvesters. , 2019, , .		1
982	Performance Analysis of Energy Harvesting-Based Full-Duplex Decode-and-Forward Vehicle-to-Vehicle Relay Networks with Nonorthogonal Multiple Access. Wireless Communications and Mobile Computing, 2019, 2019, 1-11.	0.8	13
983	Enhancement of Secrecy Throughput Performance in a Cooperative Network with Interference-assisted Energy Harvesting. , 2019, , .		0
984	A Novel Lotus Shaped Multiband Patch Antenna with Improved Performance. , 2019, , .		1
985	Enabling SWIPT via OFDM-DC. , 2019, , .		6
986	A Multi-Node Energy Prediction Approach Combined with Optimum Prediction Interval for RF Powered WSNs. Sensors, 2019, 19, 5551.	2.1	5
987	Performance analysis of RF Energy Harvesting Cooperative Communication Networks with DF scheme. , 2019, , .		1
988	Radio-Frequency Based Energy Charging- An Experimental Study. , 2019, , .		2
989	A novel Interference-aided Energy Harvesting Scheme for Cooperative Network. , 2019, , .		2
990	Wireless Powered Machine-Type Communication: Energy Minimization via Compressed Transmission. , 2019, , .		0
991	Satellite Based Sensor Networks with Energy-Harvesting-Aided Earth Terminal. , 2019, , .		0
992	Multicast Scheduling Algorithms for Battery-Free Wireless Sensor Networks. , 2019, , .		4
993	Backscatter-Aided Hybrid Data Offloading for Wireless Powered Edge Sensor Networks. , 2019, , .		21
994	Transmit Power Minimization for a Multi-Hop SWIPT Decode-and-Forward Sensor Network. , 2019, , .		6
995	Optimal Throughput of the ANC Based Two-Way Relay System with Energy Harvesting. , 2019, , .		0

#	Article	IF	CITATIONS
996	Greener, Energy-Efficient and Sustainable Networks: State-Of-The-Art and New Trends. Sensors, 2019, 19, 4864.	2.1	60
997	Throughput Maximization in Full-Duplex Dual-Hop Wireless Powered Communication Networks. IEEE Access, 2019, 7, 158584-158593.	2.6	15
998	Backscatter Based Cooperative Transmission in Wireless-Powered Heterogeneous Networks. , 2019, , .		2
999	Performance Analysis for Energy Harvesting Based Wireless Relay Systems. , 2019, , .		5
1000	Optimal System Performance in Multihop Energy Harvesting WSNs Using Cooperative NOMA and Friendly Jammers. IEEE Access, 2019, 7, 125494-125510.	2.6	16
1001	Throughput Maximization for Two-Way Buffer-Aided and Energy-Harvesting Enabled Multi-Relay Networks. IEEE Access, 2019, 7, 157972-157986.	2.6	7
1002	Secure Communication with a SWIPT-based Energy Harvesting Eavesdropper. , 2019, , .		0
1003	Energy Efficiency Optimization of Heterogeneous Networks with SWIPT: A Cell-Load Perspective. , 2019,		1
1004	Secure Beamforming for Simultaneous Wireless Information and Power Transfer in Wireless-Powered Full-Duplex Relay Networks. , 2019, , .		0
1005	Design of Communication Systems for Wireless-Powered Communications with Multiple Frequency Bands. , 2019, , .		1
1006	Simultaneous Lightwave Information and Power Transfer in Underwater Visible Light Communications. , 2019, , .		17
1007	Pressure Measurement-Based Method for Battery-Free Food Monitoring Powered by NFC Energy Harvesting. Scientific Reports, 2019, 9, 17556.	1.6	18
1008	Future Communications and Energy Management in the Internet of Vehicles: Toward Intelligent Energy-Harvesting. IEEE Wireless Communications, 2019, 26, 87-93.	6.6	120
1009	Advancing Rational Exploitation of Water Irrigation Using 5G-IoT Capabilities: The AREThOU5A Project. , 2019, , .		12
1010	GWINs: Group-Based Medium Access for Large-Scale Wireless Powered IoT Networks. IEEE Access, 2019, 7, 172913-172927.	2.6	8
1011	A Two-Layer Channel Access Approach for RF-Energy Harvesting Networks. IEEE Access, 2019, 7, 171814-171829.	2.6	6
1012	Machine Learning Based Task Scheduling for Wireless Powered Mobile Edge Computing IoT Networks. , 2019, , .		4
1013	Performance analysis of dual-hop AF relaying networks over log-normal fading channels with interferences. , 2019, , .		1

#	Article	IF	CITATIONS
1014	Recharging of Flying Base Stations using Airborne RF Energy Sources. , 2019, , .		9
1015	Green Communication for Wireless Cooperative Networks: A Survey. Lecture Notes in Networks and Systems, 2019, , 455-464.	0.5	0
1016	Resource Allocation for a Wireless Powered Integrated Radar and Communication System. IEEE Wireless Communications Letters, 2019, 8, 253-256.	3.2	38
1017	Spatiotemporal Correlation-Based Environmental Monitoring System in Energy Harvesting Internet of Things (IoT). IEEE Transactions on Industrial Informatics, 2019, 15, 2958-2968.	7.2	15
1018	Clobal Energy Efficiency in Secure MISO SWIPT Systems With Non-Linear Power-Splitting EH Model. IEEE Journal on Selected Areas in Communications, 2019, 37, 216-232.	9.7	88
1019	On outage minimization in RF energy harvesting relay assisted bidirectional communication. Wireless Networks, 2019, 25, 3867-3881.	2.0	10
1020	Offloading Wireless Energy Harvesting for IoT Devices on Unlicensed Bands. IEEE Internet of Things Journal, 2019, 6, 3663-3675.	5.5	14
1021	Secure Transmission for Simultaneous Wireless Information and Power Transfer in AF Untrusted Relay Networks. Sensors, 2019, 19, 76.	2.1	4
1022	Optimal Time Scheduling Scheme for Wireless Powered Ambient Backscatter Communications in IoT Networks. IEEE Internet of Things Journal, 2019, 6, 2264-2272.	5.5	33
1023	The design of radio frequency energy harvesting and radio frequency-based wireless power transfer system for battery-less self-sustaining applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21658.	0.8	15
1024	Performance analysis of full-duplex decode-and-forward relay system with energy harvesting over Nakagami-m fading channels. AEU - International Journal of Electronics and Communications, 2019, 98, 114-122.	1.7	40
1025	Performance Analysis of MIMO SWIPT Relay Network with Imperfect CSI. Mobile Networks and Applications, 2019, 24, 630-642.	2.2	15
1026	Joint Transmit Power and Time-Switching Control for Device-to-Device Communications in SWIPT Cellular Networks. IEEE Communications Letters, 2019, 23, 322-325.	2.5	17
1027	Phase-Aware Directional Energy Transmission Algorithm in Multiple Directional RF Energy Source Environments. IEEE Transactions on Vehicular Technology, 2019, 68, 359-367.	3.9	9
1028	Caching in Energy Harvesting Aided Internet of Things: A Game-Theoretic Approach. IEEE Internet of Things Journal, 2019, 6, 3194-3201.	5.5	62
1029	Analysis, Calibration, and Performance Evaluation of a Generalized <inline-formula> <tex-math notation="LaTeX"&gt;\$N\$  </tex-math </inline-formula> -Phase Quadrature Phase Shift Frequency Selective Receiver. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 365-382.	2.9	2
1030	SWIPT-Enabled Relaying in IoT Networks Operating With Finite Blocklength Codes. IEEE Journal on Selected Areas in Communications, 2019, 37, 74-88.	9.7	90
1031	Optimal Precoder Designs for Sum-Utility Maximization in SWIPT-Enabled Multi-User MIMO Cognitive Radio Networks. IEEE Systems Journal, 2019, 13, 2332-2343.	2.9	9

#	Article	IF	CITATIONS
1032	Resource and Task Scheduling for SWIPT IoT Systems With Renewable Energy Sources. IEEE Internet of Things Journal, 2019, 6, 2729-2748.	5.5	35
1033	Relay Cooperation Enhanced Backscatter Communication for Internet-of-Things. IEEE Internet of Things Journal, 2019, 6, 2860-2871.	5.5	67
1034	Optimal Resource Allocation for Multiuser Internet of Things Network With Single Wireless-Powered Relay. IEEE Internet of Things Journal, 2019, 6, 3132-3142.	5.5	27
1035	Energy Efficient Solutions in Wireless Sensor Systems for Water Quality Monitoring: A Review. IEEE Sensors Journal, 2019, 19, 1596-1625.	2.4	67
1036	Dualâ€band sensor–antenna design for low energy consumption/cost wireless sensor nodes. IET Microwaves, Antennas and Propagation, 2019, 13, 48-54.	0.7	5
1037	Fair Scheduling for Data Collection in Mobile Sensor Networks with Energy Harvesting. IEEE Transactions on Mobile Computing, 2019, 18, 1274-1287.	3.9	30
1038	Joint Channel Assignment and Stochastic Energy Management for RF-Powered OFDMA WSNs. IEEE Transactions on Vehicular Technology, 2019, 68, 1578-1592.	3.9	19
1039	Energy Harvesting Technologies in Wireless Sensor Networks. , 2019, , 1-5.		1
1040	Learning-Based Computation Offloading for IoT Devices With Energy Harvesting. IEEE Transactions on Vehicular Technology, 2019, 68, 1930-1941.	3.9	412
1041	Energy Efficiency Analysis of Bidirectional Wireless Information and Power Transfer for Cooperative Sensor Networks. IEEE Access, 2019, 7, 4905-4912.	2.6	2
1042	Online Policies for Throughput Maximization of Energy-Constrained Wireless-Powered Communication Systems. IEEE Transactions on Wireless Communications, 2019, 18, 1463-1476.	6.1	13
1043	Wireless Energy Transfer Powered Wireless Sensor Node for Green IoT: Design, Implementation and Evaluation. Sensors, 2019, 19, 90.	2.1	19
1044	Online Policies for Energy Harvesting Receivers With Time-Switching Architectures. IEEE Transactions on Wireless Communications, 2019, 18, 1233-1246.	6.1	4
1045	The Energy and Rate Meta Distributions in Wirelessly Powered D2D Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 269-282.	9.7	45
1046	Switching Frequency Techniques for Universal Ambient Backscatter Networking. IEEE Journal on Selected Areas in Communications, 2019, 37, 464-477.	9.7	40
1047	Fundamentals of Simultaneous Wireless Information and Power Transmission in Heterogeneous Networks: A Cell-Load Perspective. IEEE Journal on Selected Areas in Communications, 2019, 37, 100-115.	9.7	10
1048	Robust Transmissions in Wireless-Powered Multi-Relay Networks With Chance Interference Constraints. IEEE Transactions on Communications, 2019, 67, 973-987.	4.9	16
1049	Robust Beamforming Design in a NOMA Cognitive Radio Network Relying on SWIPT. IEEE Journal on Selected Areas in Communications, 2019, 37, 142-155.	9.7	105

			_
#	Article	IF	CITATIONS
1050	Towards optimal resource allocation in wireless powered communication networks with non-orthogonal multiple access. Ad Hoc Networks, 2019, 85, 1-10.	3.4	18
1051	Resource Allocation for Secure Communications in Cooperative Cognitive Wireless Powered Communication Networks. IEEE Systems Journal, 2019, 13, 2431-2442.	2.9	35
1052	Wirelessly Powered Crowd Sensing: Joint Power Transfer, Sensing, Compression, and Transmission. IEEE Journal on Selected Areas in Communications, 2019, 37, 391-406.	9.7	49
1053	Throughput Analysis of Wireless Energy-Harvesting Relaying Protocols for Nakagami-m Fading Channels. Arabian Journal for Science and Engineering, 2019, 44, 6851-6860.	1.7	2
1054	A novel meander line integrated E-shaped rectenna for energy harvesting applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21627.	0.8	34
1055	Robust Energy Efficient Beamforming in MISOME-SWIPT Systems With Proportional Secrecy Rate. IEEE Journal on Selected Areas in Communications, 2019, 37, 202-215.	9.7	23
1056	Link Scheduling in Wireless Networks With RF Energy Harvesting Nodes. IEEE Transactions on Green Communications and Networking, 2019, 3, 302-316.	3.5	3
1057	Persistent energy harvesting in the harsh desert environment using a thermal resonance device: Design, testing, and analysis. Applied Energy, 2019, 235, 1514-1523.	5.1	18
1058	Optimizing multi-user CR transmission under RF energy harvesting. Physical Communication, 2019, 32, 209-216.	1.2	3
1059	Retrodirective Frequency Diverse Array Focusing for Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2019, 37, 61-73.	9.7	33
1060	Energy Efficiency of Distributed Antenna Systems With Wireless Power Transfer. IEEE Journal on Selected Areas in Communications, 2019, 37, 89-99.	9.7	25
1061	Simultaneous Wireless Information and Power Transfer at 5G New Frequencies: Channel Measurement and Network Design. IEEE Journal on Selected Areas in Communications, 2019, 37, 171-186.	9.7	35
1062	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.	9.7	452
1063	Waveform Design for Fair Wireless Power Transfer With Multiple Energy Harvesting Devices. IEEE Journal on Selected Areas in Communications, 2019, 37, 34-47.	9.7	25
1064	Energy Efficiency Fairness for Multi-Pair Wireless-Powered Relaying Systems. IEEE Journal on Selected Areas in Communications, 2019, 37, 357-373.	9.7	26
1065	Energy Management in RFID-Sensor Networks: Taxonomy and Challenges. IEEE Internet of Things Journal, 2019, 6, 250-266.	5.5	30
1066	RF energy harvesting: an analysis of wireless sensor networks for reliable communication. Wireless Networks, 2019, 25, 185-199.	2.0	15
1067	Green transmission for C-RAN based on SWIPT in 5G: a review. Wireless Networks, 2019, 25, 2621-2649.	2.0	29

#	Article	IF	CITATIONS
1068	SEES: a scalable and energy-efficient scheme for green IoT-based heterogeneous wireless nodes. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1571-1596.	3.3	36
1069	Secrecy Energy Efficiency Optimization for Downlink Two-User OFDMA Networks With SWIPT. IEEE Systems Journal, 2019, 13, 324-335.	2.9	16
1070	Throughput analysis of wireless-powered decode-and-forward relay systems with interference. Wireless Networks, 2019, 25, 2485-2495.	2.0	3
1071	Robust Secrecy Beamforming and Power-Splitting Design for Multiuser MISO Downlink With SWIPT. IEEE Systems Journal, 2019, 13, 1367-1375.	2.9	16
1072	On Optimizing Max Min Rate in Rechargeable Wireless Sensor Networks with Energy Sharing. IEEE Transactions on Sustainable Computing, 2020, 5, 107-120.	2.2	8
1073	Secure communication with energy harvesting multiple half-duplex DF relays assisted with jamming. Wireless Networks, 2020, 26, 1151-1164.	2.0	6
1074	Ambient Backscatter Communications to Energize IoT Devices. IETE Technical Review (Institution of) Tj ETQq0 0 (	0 rgBT /Ov 2.1	verlock 10 Tf
1075	Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. IEEE Transactions on Mobile Computing, 2020, 19, 1731-1744.	3.9	9
1076	Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. IEEE Systems Journal, 2020, 14, 333-342.	2.9	3
1077	Power-domain non orthogonal multiple access (PD-NOMA) in cooperative networks: an overview. Wireless Networks, 2020, 26, 181-203.	2.0	88
1078	Multi-relay selection in energy-harvesting cooperative wireless networks: game-theoretic modeling and analysis. Telecommunication Systems, 2020, 73, 289-311.	1.6	2
1079	Two-way SWIPT-aided hybrid NOMA relaying for out-of-coverage devices. Wireless Networks, 2020, 26, 2255-2270.	2.0	3
1080	Power Beacon-Based Wireless Power Transfer in MISO/SISO: An Application in Device-to-Device Networks. Wireless Personal Communications, 2020, 110, 381-402.	1.8	2
1081	Outage probability of NOMA system with wireless power transfer at source and full-duplex relay. AEU - International Journal of Electronics and Communications, 2020, 116, 152957.	1.7	31
1082	Resource configuration for minimizing source energy consumption in multi-carrier networks with energy harvesting relay and data-rate guarantee. Computer Communications, 2020, 149, 121-133.	3.1	2
1083	Joint Power Allocation and Splitting Control for SWIPT-Enabled NOMA Systems. IEEE Transactions on Wireless Communications, 2020, 19, 120-133.	6.1	53
1084	Sum-Throughput Maximization of Secondary Users in an In-Band Full-Duplex Cognitive Wireless Powered Communication Network. IEEE Systems Journal, 2020, 14, 2109-2120.	2.9	9
1085	Notice of Retraction: Enabling Hardware Green Internet of Things: A review of Substantial Issues. IEEE Access, 2024, , 1-1.	2.6	5

#	Article	IF	CITATIONS
1086	Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. IEEE Systems Journal, 2020, 14, 445-456.	2.9	4
1087	Impact of Outdated CSI on the Secrecy Performance of Wireless-Powered Untrusted Relay Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 1423-1433.	4.5	17
1088	Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. IEEE Systems Journal, 2020, 14, 457-468.	2.9	9
1089	SWIPT in multi-hop amplify-and-forward wireless sensor networks. International Journal of Electronics, 2020, 107, 630-643.	0.9	2
1090	Conditional Capacity and Transmit Signal Design for SWIPT Systems With Multiple Nonlinear Energy Harvesting Receivers. IEEE Transactions on Communications, 2020, 68, 582-601.	4.9	22
1091	Signal Detection and Optimal Antenna Selection for Ambient Backscatter Communications With Multi-Antenna Tags. IEEE Transactions on Communications, 2020, 68, 466-479.	4.9	24
1092	Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. IEEE Systems Journal, 2020, 14, 1206-1217.	2.9	31
1093	Learning-Based Resource Management in Device-to-Device Communications With Energy Harvesting Requirements. IEEE Transactions on Communications, 2020, 68, 402-413.	4.9	19
1094	Energy Efficiency and Delay Tradeoff for Wireless Powered Mobile-Edge Computing Systems With Multi-Access Schemes. IEEE Transactions on Wireless Communications, 2020, 19, 1855-1867.	6.1	97
1095	Minimum Throughput Maximization for Multi-UAV Enabled WPCN: A Deep Reinforcement Learning Method. IEEE Access, 2020, 8, 9124-9132.	2.6	51
1096	Outage Analysis of RF Energy Harvesting Cooperative Communication Systems Over Nakagami-\$m\$ Fading Channels With Integer and Non-Integer \$m\$. IEEE Transactions on Vehicular Technology, 2020, 69, 2785-2801.	3.9	30
1097	Secure Wireless Powered Cooperative Communication Networks With Finite Energy Storage. IEEE Transactions on Vehicular Technology, 2020, 69, 1008-1022.	3.9	12
1098	Optimal energy beamforming under perâ€antenna power constraint. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3846.	2.6	0
1099	MIMO-OFDM-Based Wireless-Powered Relaying Communication With an Energy Recycling Interface. IEEE Transactions on Communications, 2020, 68, 811-824.	4.9	12
1100	Energy-Constrained Data Freshness Optimization in Self-Powered Networked Embedded Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2293-2306.	1.9	13
1101	Energy efficiency resource allocation for D2D communication network based on relay selection. Wireless Networks, 2021, 27, 3689-3699.	2.0	7
1102	Plant miRNA–IncRNA Interaction Prediction with the Ensemble of CNN and IndRNN. Interdisciplinary Sciences, Computational Life Sciences, 2020, 12, 82-89.	2.2	36
1103	A Distributed Ambient Backscatter MAC Protocol for Internet-of-Things Networks. IEEE Internet of Things Journal, 2020, 7, 1488-1501.	5.5	19

#	Article	IF	CITATIONS
1104	Optimal Resource Allocation in Wireless Powered Relay Networks With Nonlinear Energy Harvesters. IEEE Wireless Communications Letters, 2020, 9, 371-375.	3.2	6
1105	Distributed ADMM-based approach for total harvested power maximization in non-linear SWIPT system. Wireless Networks, 2020, 26, 1357-1371.	2.0	1
1106	Wireless Energy Harvesting-Based Relaying: A Finite-SNR Diversity-Multiplexing Tradeoff Perspective. IEEE Transactions on Green Communications and Networking, 2020, 4, 277-288.	3.5	1
1107	User-centric harvested energy-efficiency maximisation for secure SWIPT transmissions. International Journal of Electronics, 2020, 107, 985-1014.	0.9	0
1108	Subchannel and resource allocation in cognitive radio sensor network with wireless energy harvesting. Computer Networks, 2020, 167, 107028.	3.2	20
1109	Sensing, Computing, and Communications for Energy Harvesting IoTs: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1222-1250.	24.8	184
1110	Throughput Maximization of a Hybrid EH-SWIPT Relay System Under Temperature Constraints. IEEE Transactions on Vehicular Technology, 2020, 69, 1792-1801.	3.9	10
1111	Minimum Age of Information in the Internet of Things With Non-Uniform Status Packet Sizes. IEEE Transactions on Wireless Communications, 2020, 19, 1933-1947.	6.1	64
1112	A Joint Information and Energy Cooperation Framework for CR-Enabled Macro–Femto Heterogeneous Networks. IEEE Internet of Things Journal, 2020, 7, 2828-2839.	5.5	32
1113	Relay Cooperative Beamforming Algorithm Based on Probabilistic Constraint in SWIPT Secrecy Networks. IEEE Access, 2020, 8, 173999-174008.	2.6	9
1114	Recent progress of triboelectric nanogenerators: From fundamental theory to practical applications. EcoMat, 2020, 2, e12059.	6.8	212
1115	Performance and optimal analysis of time-switching energy harvesting protocol for MIMO full-duplex decode-and-forward wireless relay networks with various transmitter and receiver diversity techniques. Journal of the Franklin Institute, 2020, 357, 13205-13230.	1.9	7
1116	Millimeter-Wave Power Harvesting: A Review. IEEE Open Journal of Antennas and Propagation, 2020, 1, 560-578.	2.5	43
1117	Persistent, single-polarity energy harvesting from ambient thermal fluctuations using a thermal resonance device with thermal diodes. Applied Energy, 2020, 280, 115881.	5.1	8
1118	Information Freshness-Guaranteed and Energy-Efficient Data Generation Control System in Energy Harvesting Internet of Things. IEEE Access, 2020, 8, 168711-168720.	2.6	5
1119	Recycling Ambient Wi-Fi Signals for Low Energy Wake-Up of Wireless Sensors. , 2020, 4, 1-4.		3
1120	Survey of energy-autonomous solar cell receivers for satellite–air–ground–ocean optical wireless communication. Progress in Quantum Electronics, 2020, 74, 100300.	3.5	32
1121	Efficient scheduling of a mobile charger in large-scale sensor networks. Theoretical Computer Science, 2020, 840, 219-233.	0.5	6

#	Article	IF	CITATIONS
1122	Symbol Error Rate of Energy Harvesting Full-Duplex Relay Systems over Cascade Rayleigh Fading Channels. , 2020, , .		1
1123	Optimal Dynamic Resource Allocation for Multi-Point Communication in WBAN. IEEE Access, 2020, 8, 114153-114161.	2.6	7
1124	Relay Selection, Scheduling, and Power Control in Wireless-Powered Cooperative Communication Networks. IEEE Transactions on Wireless Communications, 2020, 19, 7181-7195.	6.1	16
1125	An Analytical Model for Energy Harvest Road Side Units Deployment With Dynamic Service Radius in Vehicular Ad-Hoc Networks. IEEE Access, 2020, 8, 122589-122598.	2.6	8
1126	Back-to-Back Microstrip Antenna Design for Broadband Wide-Angle RF Energy Harvesting and Dedicated Wireless Power Transfer. IEEE Access, 2020, 8, 126868-126875.	2.6	14
1127	Charge-and-Activate Policies for Targets Monitoring in RF-Harvesting Sensor Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 7835-7846.	3.9	6
1128	On Maximizing Min Source Rate in Power Beacon Assisted IoTs Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 11880-11892.	3.9	4
1129	An Optimal Policy for Hybrid Channel Access in Cognitive Radio Networks With Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 11253-11265.	3.9	11
1130	Beamformer Design for Self-Energy Recycling in Full-Duplex Decode-and-Forward Relay Systems. IEEE Wireless Communications Letters, 2020, 9, 1417-1421.	3.2	6
1131	Outage-Optimal and Suboptimal Power Control for D2D Communications in SWIPT Cellular Networks With Local CSI. IEEE Wireless Communications Letters, 2020, 9, 1795-1798.	3.2	5
1132	AN-Aided Secure Beamforming in SWIPT-Aware Mobile Edge Computing Systems with Cognitive Radio. Wireless Communications and Mobile Computing, 2020, 2020, 1-10.	0.8	3
1133	Interference aided cooperative SWIPT for cellular IoT networks towards 5G and beyond. Physical Communication, 2020, 43, 101223.	1.2	4
1134	Backscatter-assisted Wireless Powered Communication Networks with Multiple Antennas. , 2020, , .		5
1135	Improper Gaussian Signaling for Computationally Tractable Energy and Information Beamforming. IEEE Transactions on Vehicular Technology, 2020, 69, 13990-13995.	3.9	9
1136	Optimal power allocation policies in multi-hop cognitive radio networks. , 2020, , .		2
1137	Security Enhancement for Energy Harvesting Cognitive Networks with Relay Selection. Wireless Communications and Mobile Computing, 2020, 2020, 1-13.	0.8	13
1138	Computation Scheduling for Wireless Powered Mobile Edge Computing Networks. , 2020, , .		34
1139	Age-Energy Region in Wireless Powered Communication Networks. , 2020, , .		8

#	Article	IF	CITATIONS
1140	Outage Performance in Cooperative IoT Networks with Energy Harvesting. , 2020, , .		0
1141	Large-Scale Wireless-Powered Networks With Backscatter Communications—A Comprehensive Survey. IEEE Open Journal of the Communications Society, 2020, 1, 1100-1130.	4.4	48
1142	Performance Analysis of Energy Beamforming WPCN Links With Channel Estimation Errors. IEEE Open Journal of the Communications Society, 2020, 1, 1153-1170.	4.4	4
1143	Dualâ€output quasi‥agi antenna for outâ€ofâ€band RF energy harvesting. IET Microwaves, Antennas and Propagation, 2020, 14, 1053-1060.	0.7	4
1144	Grand Challenges in Wireless Communications. Frontiers in Communications and Networks, 2020, 1, .	1.9	12
1145	A 2.45 GHz High Efficiency CMOS RF Energy Harvester with Adaptive Path Control. Electronics (Switzerland), 2020, 9, 1107.	1.8	9
1146	An Adaptive Secure Transmission Scheme for Wireless Powered Communication Networks. , 2020, , .		1
1147	A Bandit Approach for Mode Selection in Ambient Backscatter-Assisted Wireless-Powered Relaying. IEEE Transactions on Vehicular Technology, 2020, 69, 9190-9195.	3.9	9
1148	Adaptive Data Flow Processing Method based on ECG Monitoring System CareON. , 2020, , .		0
1149	Optimal Resource Allocation for Wireless Powered Sensors: A Perspective From Age of Information. IEEE Communications Letters, 2020, 24, 2559-2563.	2.5	12
1150	Max-Min Energy Balance in Wireless-Powered Hierarchical Fog-Cloud Computing Networks. IEEE Transactions on Wireless Communications, 2020, 19, 7064-7080.	6.1	33
1151	Minimum Age-Energy Aware Cost in Wireless Powered Fog Computing Networks. , 2020, , .		4
1152	Real-World Performance of Sub-1 GHz and 2.4 GHz Textile Antennas for RF-Powered Body Area Networks. IEEE Access, 2020, 8, 133746-133756.	2.6	21
1153	Inkâ€Based Additive Nanomanufacturing of Functional Materials for Humanâ€Integrated Smart Wearables. Advanced Intelligent Systems, 2020, 2, 2000117.	3.3	17
1154	UAV for Wireless Power Transfer in IoT Networks: A GMDP approach. , 2020, , .		5
1155	An Energy-Efficient Framework for Internet of Things Underlaying Heterogeneous Small Cell Networks. IEEE Transactions on Mobile Computing, 2022, 21, 31-43.	3.9	117
1156	Power Minimization for Secure Multi-User MISO NOMA System With Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 10046-10058.	3.9	10
1157	Resource Allocation Strategy for MEC System Based on VM Migration and RF Energy Harvesting. , 2020,		2

ARTICLE IF CITATIONS Efficient Deployment of UAV-powered Sensors for Optimal Coverage and Connectivity., 2020,,. 11 1158 Sum-Throughput Maximization for NOMA-Based WPCN with Signal Alignment., 2020,,. From serendipity to sustainable green IoT: Technical, industrial and political perspective. Computer 1160 3.2 23 Networks, 2020, 182, 107469. Computation Rate Maximization in Wireless Powered MEC with Spread Spectrum Multiple Access., Adaptive and Extensible Energy Supply Mechanism for UAVs-Aided Wireless-Powered Internet of Things. IEEE Internet of Things Journal, 2020, 7, 9201-9213. 1162 5.5 31 Secure Communication With Outdated Channel State Information via Untrusted Relay Capable of Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 11323-11337 UAV-Assisted Time Division Power Allocation Strategy Based on RF Energy Harvesting., 2020,,. 1164 5 Energy-Efficient Cooperative Communication and Computation for Wireless Powered Mobile-Edge 2.9 Computing. IEEE Systems Journal, 2022, 16, 287-298. 1166 Dual-Band Single-Layered Modified E-shaped Patch Antenna for RF Energy Harvesting Systems., 2020,,. 5 Rectennas for Radio-Frequency Energy Harvesting and Wireless Power Transfer: A Review of Antenna 1.2 68 Design [Antenna Applications Corner]. IEEE Antennas and Propagation Magazine, 2020, 62, 95-107. Towards Energy Efficient 5G Networks Using Machine Learning: Taxonomy, Research Challenges, and 1168 2.6 44 Future Research Directions. IEEE Access, 2020, 8, 187498-187522. Building Upon NB-IoT Networks: A Roadmap Towards 5G New Radio Networks. IEEE Access, 2020, 8, 2.6 28 188641-188672. Wireless Power-Data Transmission for Industrial Internet of Things: Simulations and Experiments. IEEE 1170 2.6 4 Access, 2020, 8, 187965-187974. Resource Allocation Strategy for D2D-Assisted Edge Computing System With Hybrid Energy Harvesting. IEEE Access, 2020, 8, 192643-192658. 1171 2.6 14 Resource Allocation for MC MISO-NOMA SWIPT-Enabled HetNets With Non-Linear Energy Harvesting. 1172 2.6 14 IEEE Access, 2020, 8, 192270-192281. Throughput Maximization in Wireless Powered Energy Harvesting Based Sensor Networks., 2020,,. Wearables for the Next Pandemic. IEEE Access, 2020, 8, 184457-184474. 1174 2.6 17 A Survey on Non-Orthogonal Multiple Access: From the Perspective of Spectral Efficiency and Energy 1175 1.6 Efficiency. Energies, 2020, 13, 4106.

#	Article	IF	CITATIONS
1176	Cooperative NOMA system with incremental relaying and energy harvesting: Performance analysis and optimization. Transactions on Emerging Telecommunications Technologies, 2020, 31, e4075.	2.6	7
1177	<scp>Sumâ€throughput</scp> maximization for overlay cognitive wireless powered network with energy harvesting capability. Transactions on Emerging Telecommunications Technologies, 2020, 31, e4046.	2.6	4
1178	Power Management Circuits for Low-Power RF Energy Harvesters. Journal of Low Power Electronics and Applications, 2020, 10, 29.	1.3	15
1179	Backscatter-Aided Cooperative Transmission in Wireless-Powered Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2020, 19, 7309-7323.	6.1	10
1180	Secure Simultaneous Information and Power Transfer for Downlink Multi-User Massive MIMO. IEEE Access, 2020, 8, 150514-150526.	2.6	6
1181	Optimizing a Secure Two-Way Network with Non-Linear SWIPT, Channel Uncertainty, and a Hidden Eavesdropper. Electronics (Switzerland), 2020, 9, 1222.	1.8	5
1182	Ambipolar Deep-Subthreshold Printed-Carbon-Nanotube Transistors for Ultralow-Voltage and Ultralow-Power Electronics. ACS Nano, 2020, 14, 14036-14046.	7.3	30
1183	Secure and Stateful Power Transitions in Embedded Systems. Journal of Hardware and Systems Security, 2020, 4, 263-276.	0.8	0
1184	Wireless Crowd Charging Applications: Taxonomy and Research Directions. , 2020, , .		1
1185	Ambient Backscattering-Enabled SWIPT Relaying System with a Nonlinear Energy Harvesting Model. Sensors, 2020, 20, 4534.	2.1	3
1186	Learning and Fairness in Energy Harvesting: A Maximin Multi-Armed Bandits Approach. , 2020, , .		1
1187	A low-power prototype of contactless field power controlled BLAC and BLDC motors. Wireless Power Transfer, 2020, 7, 106-115.	0.9	1
1188	Inertial Kinetic Energy Harvesters for Wearables: The Benefits of Energy Harvesting at the Foot. IEEE Access, 2020, 8, 208136-208148.	2.6	11
1189	Adaptive Wireless Power Transfer Beam Scheduling for Non-Static IoT Devices Using Deep Reinforcement Learning. IEEE Access, 2020, 8, 206659-206673.	2.6	7
1190	SWIPT-Enabled Cooperative NOMA With <i>m</i> th Best Relay Selection. IEEE Open Journal of the Communications Society, 2020, 1, 1798-1807.	4.4	12
1191	Multiband Ambient RF Energy Harvesting for Autonomous IoT Devices. IEEE Microwave and Wireless Components Letters, 2020, 30, 1189-1192.	2.0	56
1192	Feasibility of Harvesting Solar Energy for Self-Powered Environmental Wireless Sensor Nodes. Electronics (Switzerland), 2020, 9, 2058.	1.8	14
1193	Secure beamforming design of SWIPT relay network with multiple users and eavesdroppers. Journal of Physics: Conference Series, 2020, 1607, 012028.	0.3	2

#	Article	IF	CITATIONS
1194	Jointly Optimize the Residual Energy of Multiple Mobile Devices in the MEC–WPT System. Future Internet, 2020, 12, 233.	2.4	8
1195	Energy Balance of a Continuous Structural Health Monitoring System based on Energy Harvesting. IOP Conference Series: Materials Science and Engineering, 2020, 949, 012013.	0.3	1
1196	Feasibility of Wireless Horse Monitoring Using a Kinetic Energy Harvester Model. Electronics (Switzerland), 2020, 9, 1730.	1.8	5
1197	Serial Switch Only Rectifier as a Power Conditioning Circuit for Electric Field Energy Harvesting. Energies, 2020, 13, 5279.	1.6	6
1198	Stochastic Geometry Based Performance Characterization of SWIPT in Cell-Free Massive MIMO. IEEE Transactions on Vehicular Technology, 2020, 69, 13357-13370.	3.9	13
1199	A Computer Vision Aided Beamforming Scheme with EM Exposure Control in Outdoor LOS Scenarios. , 2020, , .		1
1200	Data Downlink System in the Vast IOT Node Condition Assisted by UAV, Large Intelligent Surface, and Power and Data Beacon. Sensors, 2020, 20, 5748.	2.1	4
1201	Minimum Length Scheduling for Multi-Cell Wireless Powered Communication Networks. , 2020, , .		1
1202	DCA approaches for simultaneous wireless information power transfer in MISO secrecy channel. Optimization and Engineering, 2020, , 1.	1.3	1
1203	CoMP-NOMA in the SWIPT Networks. IEEE Transactions on Wireless Communications, 2020, 19, 4549-4562.	6.1	15
1204	A Hexagonal-Shaped Microstrip Patch Antenna with notch included partial ground plane for 2.45 GHz Wi-Fi Band RF Energy Harvesting Applications. , 2020, , .		8
1205	An Efficient Reconfigurable RF-DC Converter With Wide Input Power Range for RF Energy Harvesting. IEEE Access, 2020, 8, 79310-79318.	2.6	41
1206	Modified Patch Antenna Design Using Moth Search Algorithm for RF Energy Harvesting Applications. , 2020, , .		4
1207	UAV-enabled data acquisition scheme with directional wireless energy transfer for Internet of Things. Computer Communications, 2020, 155, 184-196.	3.1	29
1208	Decoupling or Learning: Joint Power Splitting and Allocation in MC-NOMA With SWIPT. IEEE Transactions on Communications, 2020, 68, 5834-5848.	4.9	31
1209	Wireless-Powered Machine-to-Machine Multicasting in Cellular Networks. IEEE Transactions on Green Communications and Networking, 2020, 4, 515-528.	3.5	3
1210	Throughput Maximization for Peer-Assisted Wireless Powered IoT NOMA Networks. IEEE Transactions on Wireless Communications, 2020, 19, 5278-5291.	6.1	12
1211	Zenneck Waves in Decision Agriculture: An Empirical Verification and Application in EM-Based Underground Wireless Power Transfer. Smart Cities, 2020, 3, 308-340.	5.5	11

#	Article	IF	CITATIONS
1212	On Maximizing Max–Min Source Rate in Wireless-Powered Internet of Things. IEEE Internet of Things Journal, 2020, 7, 11276-11289.	5.5	8
1213	On-Site and External Energy Harvesting in Underground Wireless. Electronics (Switzerland), 2020, 9, 681.	1.8	23
1214	Classification of Energy Saving Techniques for IoT-based Heterogeneous Wireless Nodes. Procedia Computer Science, 2020, 171, 2590-2599.	1.2	41
1215	Evaluation of RF Energy Harvesting by Mobile D2D Nodes Within a Stochastic Field of Base Stations. IEEE Transactions on Green Communications and Networking, 2020, 4, 1120-1129.	3.5	3
1216	On the performance of roadside unit-assisted energy harvesting full-duplex amplify-and-forward vehicle-to-vehicle relay systems. AEU - International Journal of Electronics and Communications, 2020, 123, 153289.	1.7	7
1217	Wireless information and power transfer using single and multiple path relays. International Journal of Communication Systems, 2020, 33, e4464.	1.6	10
1218	Relay Selection and Performance Analysis of Wireless Energy Harvesting Networks. Wireless Personal Communications, 2020, 114, 3157-3171.	1.8	7
1219	Low turn-on voltage and high breakdown GaN Schottky barrier diodes for RF energy harvesting applications. Japanese Journal of Applied Physics, 2020, 59, SGGD12.	0.8	5
1220	G2A Communication Systems: A Survey on Evolving Enabling Technologies, Technical Challenges and Research Directions. , 2020, , .		2
1221	Wirelessly Powered Cell-Free IoT: Analysis and Optimization. IEEE Internet of Things Journal, 2020, 7, 8384-8396.	5.5	33
1222	Optimization for Full-Duplex Rotary-Wing UAV-Enabled Wireless-Powered IoT Networks. IEEE Transactions on Wireless Communications, 2020, 19, 5057-5072.	6.1	57
1223	A Pentagon-Shaped Microstrip Patch Antenna with Slotted Ground Plane for RF Energy Harvesting. , 2020, , .		6
1224	A Survey of Multi-Access Edge Computing in 5G and Beyond: Fundamentals, Technology Integration, and State-of-the-Art. IEEE Access, 2020, 8, 116974-117017.	2.6	493
1225	Capitalizing Backscatter-Aided Hybrid Relay Communications With Wireless Energy Harvesting. IEEE Internet of Things Journal, 2020, 7, 8709-8721.	5.5	21
1226	Analysis of Outage Probability and Throughput for Energy Harvesting Full-Duplex Decode-and-Forward Vehicle-to-Vehicle Relay System. Wireless Communications and Mobile Computing, 2020, 2020, 1-10.	0.8	7
1227	Monostatic Backscatter Communication in Urban Microcellular Environment Using Cellular Networks. , 2020, , .		2
1228	Energy Efficient Design Techniques in Next-Generation Wireless Communication Networks: Emerging Trends and Future Directions. Wireless Communications and Mobile Computing, 2020, 2020, 1-19.	0.8	32
1229	Lens Antenna Arrays Aided Co-Existing Radar and Communication Systems With Energy Harvesting. IEEE Access, 2020, 8, 56160-56169.	2.6	3

#	Article	IF	CITATIONS
1230	Dedicated Energy Harvesting in Concatenated Hybrid PLC-Wireless Systems. IEEE Transactions on Wireless Communications, 2020, 19, 3839-3853.	6.1	14
1231	Energy-Efficiency-Oriented Charge Scheduling and Beamforming for a Two-Tier Wireless Powered Network. IEEE Internet of Things Journal, 2020, 7, 2212-2222.	5.5	4
1232	Finite Blocklength Non-Orthogonal Cooperative Communication Relying on SWIPT-Enabled Energy Harvesting Relays. IEEE Transactions on Communications, 2020, 68, 3326-3341.	4.9	28
1233	Proportional-Fair Multi-User Scalable Layered Wireless Video Streaming Powered by Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 4460-4471.	3.9	9
1234	Dynamic Power Splitting for SWIPT With Nonlinear Energy Harvesting in Ergodic Fading Channel. IEEE Internet of Things Journal, 2020, 7, 5648-5665.	5.5	11
1235	Analysis of influence of nonlinearities and noise correlation time in a single-DOF energy-harvesting system via power balance description. Nonlinear Dynamics, 2020, 100, 119-133.	2.7	17
1236	Simultaneous Wireless Information and Power Transfer by Continuous-Phase Modulation. IEEE Communications Letters, 2020, 24, 1294-1298.	2.5	3
1237	Cognitive Radio-Assisted NOMA Broadcasting for 5G Cellular V2X Communications: Model of Roadside Unit Selection and SWIPT. Sensors, 2020, 20, 1786.	2.1	6
1238	A Comprehensive Survey on Millimeter Wave Communications for Fifth-Generation Wireless Networks: Feasibility and Challenges. IEEE Access, 2020, 8, 62367-62414.	2.6	244
1239	Modeling and Performance Analysis for Ambient Backscattering Underlaying Cellular Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 6563-6577.	3.9	28
1240	Secrecy Energy Efficiency in Multi-Antenna SWIPT Networks With Dual-Layer PS Receivers. IEEE Transactions on Wireless Communications, 2020, 19, 4290-4306.	6.1	16
1241	Wirelessly-Powered Sensor Networks: Power Allocation for Channel Estimation and Energy Beamforming. IEEE Transactions on Wireless Communications, 2020, 19, 2987-3002.	6.1	15
1242	Wi-Fi Backscatter System with Tag Sensors Using Multi-Antennas for Increased Data Rate and Reliability. Sensors, 2020, 20, 1314.	2.1	2
1243	A Multi-Armed Bandit Approach to Wireless Information and Power Transfer. IEEE Communications Letters, 2020, 24, 886-889.	2.5	7
1244	Full-Duplex Non-Orthogonal Multiple Access Cooperative Spectrum-Sharing Networks With Non-Linear Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 10925-10936.	3.9	34
1245	Hybrid NOMA/OMA-Based Dynamic Power Allocation Scheme Using Deep Reinforcement Learning in 5G Networks. Applied Sciences (Switzerland), 2020, 10, 4236.	1.3	17
1246	Legitimate eavesdropping of wireless powered suspicious communication networks with a monitoring power station. Physical Communication, 2020, 42, 101142.	1.2	0
1247	Relaying Energy Allocation Scheme Based on Multi-User SWIPT Relaying System. Mobile Networks and Applications, 2020, 25, 1663-1672.	2.2	1

#	Article	IF	CITATIONS
1248	Adaptive Transmission Design for Rechargeable Wireless Sensor Network With a Mobile Sink. IEEE Internet of Things Journal, 2020, 7, 9011-9025.	5.5	11
1249	Reusing wireless power transfer for backscatter-assisted relaying in WPCNs. Computer Networks, 2020, 175, 107277.	3.2	5
1250	Spatiotemporal charging scheduling in wireless rechargeable sensor networks. Computer Communications, 2020, 152, 155-170.	3.1	42
1251	Joint 3D Trajectory Design and Time Allocation for UAV-Enabled Wireless Power Transfer Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 9265-9278.	3.9	52
1252	McLeish Distribution: Performance of Digital Communications Over Additive White McLeish Noise (AWMN) Channels. IEEE Access, 2020, 8, 19133-19195.	2.6	3
1253	A New Green Prospective of Non-orthogonal Multiple Access (NOMA) for 5G. Information (Switzerland), 2020, 11, 89.	1.7	24
1254	Learning-Based Joint Optimization of Transmit Power and Harvesting Time in Wireless-Powered Networks With Co-Channel Interference. IEEE Transactions on Vehicular Technology, 2020, 69, 3500-3504.	3.9	19
1255	Relay Selection Optimization for SWIPT-Enabled Cooperative Networks. Information (Switzerland), 2020, 11, 7.	1.7	3
1256	Resource Allocation in Wireless Powered Virtualized Sensor Networks. IEEE Access, 2020, 8, 40327-40336.	2.6	12
1257	Novel Frequency-Splitting SWIPT for Overcoming Amplifier Nonlinearity. IEEE Wireless Communications Letters, 2020, 9, 826-829.	3.2	23
1258	Secure Green-Oriented Multiuser Scheduling for Wireless-Powered Internet of Things. Wireless Communications and Mobile Computing, 2020, 2020, 1-11.	0.8	2
1259	Transceiver Design and Signal Detection in Backscatter Communication Systems With Multiple-Antenna Tags. IEEE Transactions on Wireless Communications, 2020, 19, 3273-3288.	6.1	23
1260	Optimal charger placement for wireless power transfer. Computer Networks, 2020, 170, 107123.	3.2	15
1261	UAV-Assisted Wireless Charging for Energy-Constrained IoT Devices Using Dynamic Matching. IEEE Internet of Things Journal, 2020, 7, 4789-4800.	5.5	45
1262	Combination of Ultra-Dense Networks and Other 5G Enabling Technologies: A Survey. IEEE Access, 2020, 8, 22893-22932.	2.6	87
1263	Toward Self-Powered Internet of Underwater Things Devices. IEEE Communications Magazine, 2020, 58, 68-73.	4.9	42
1264	Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. IEEE Systems Journal, 2020, 14, 4131-4142.	2.9	10
1265	Secure Communication via Multiple RF-EH Untrusted Relays With Finite Energy Storage. IEEE Internet of Things Journal, 2020, 7, 1476-1487.	5.5	11

#	Article	IF	CITATIONS
1266	Microwave antennas—An intrinsic part of RF energy harvesting systems: A contingent study about its design methodologies and stateâ€ofâ€art technologies in current scenario. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22148.	0.8	28
1267	Recycling Cellular Energy for Self-Sustainable IoT Networks: A Spatiotemporal Study. IEEE Transactions on Wireless Communications, 2020, 19, 2699-2712.	6.1	19
1268	Optimal Resource Allocation in Point-to-Point Wireless Body Area Network with Backscatter Communication. , 2020, , .		7
1269	Modeling and Analysis of Energy Harvesting and Smart Grid-Powered Wireless Communication Networks: A Contemporary Survey. IEEE Transactions on Green Communications and Networking, 2020, 4, 461-496.	3.5	83
1270	Learning-Based Resource Management for SWIPT. IEEE Systems Journal, 2020, 14, 4750-4753.	2.9	5
1271	Throughput Analysis of Energy Harvesting Enabled Incremental Relaying NOMA System. IEEE Communications Letters, 2020, 24, 1419-1423.	2.5	22
1272	Information-Energy Region for SWIPT Networks in Mobility Scenarios. IEEE Transactions on Vehicular Technology, 2020, 69, 7264-7280.	3.9	6
1273	Hybrid Internal Vth Cancellation Rectifiers for RF Energy Harvesting. IEEE Access, 2020, 8, 51976-51980.	2.6	13
1274	Ratcheting quasi-ballistic electrons in silicon geometric diodes at room temperature. Science, 2020, 368, 177-180.	6.0	22
1275	A Comprehensive Review of Metasurface Structures Suitable for RF Energy Harvesting. IEEE Access, 2020, 8, 76433-76452.	2.6	62
1276	A decision-making analysis in UAV-enabled wireless power transfer for IoT networks. Simulation Modelling Practice and Theory, 2020, 103, 102102.	2.2	11
1277	Improper Gaussian Signaling for Integrated Data and Energy Networking. IEEE Transactions on Communications, 2020, 68, 3922-3934.	4.9	20
1278	Dual-Hop Wireless Powered Communication Networks Assisted by Backscatter. , 2020, , .		0
1279	Random Channel Access Protocols for SIC Enabled Energy Harvesting IoTs Networks. IEEE Systems Journal, 2021, 15, 2269-2280.	2.9	6
1280	Energy-Efficient LoRaWAN for Industry 4.0 Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 891-902.	7.2	62
1281	Complete Target Coverage in Radio Frequency and Solar-Powered Sensor Networks. IEEE Systems Journal, 2021, 15, 3609-3619.	2.9	8
1282	Radio resource management: approaches and implementations from 4G to 5G and beyond. Wireless Networks, 2021, 27, 693-734.	2.0	28
1283	Dual-Band Store-and-Use System for RF Energy Harvesting With Off-the-Shelf DC/DC Converters. IEEE Internet of Things Journal, 2021, 8, 3678-3688.	5.5	4
ARTICLE IF CITATIONS Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted 1284 5.5 9 Cooperative Jamming. IEEE Internet of Things Journal, 2021, 8, 1467-1476. On Devices Selection in RF-Energy Harvesting Wireless Networks. IEEE Systems Journal, 2021, , 1-11. Improving Spectrum Efficiency of Cell-Edge Devices by Incentive Architecture Applications With 1286 7.2 10 Dynamic Charging. IEEE Transactions on Industrial Informatics, 2021, 17, 795-808. Q-Learning-Based Adaptive Power Control in Wireless RF Energy Harvesting Heterogeneous Networks. 2.9 IEEE Systems Journal, 2021, 15, 1861-1872. A Fairness-Based Collaborative Communication Ecosystem Over Sustainable D2D Fogs in a 5G 1288 7.2 3 Industrial IoT. IEEE Transactions on Industrial Informátics, 2021, 17, 7860-7870. Optimizing Superframe and Data Buffer to Achieve Maximum Throughput for 802.15.4-Based Energy Harvesting Wireless Sensor Networks. IEEE Internet of Things Journal, 2021, 8, 3689-3704. 1289 5.5 Outage probability of dual-hop cooperative communication networks over the Nakagami-m fading 1290 channel with RF energy harvesting. Annales Des Telecommunications/Annals of Telecommunications, 1.6 1 2021, 76, 63-72. Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog 1291 5.5 Servers. IEEE Internet of Things Journal, 2021, 8, 4802-4815. Pareto-Optimal Resource Allocation in Decentralized Wireless Powered Networks. IEEE Transactions 1292 4.9 6 on Communications, 2021, 69, 1007-1020. Evaluation of Hybrid Dedicated/Ambient EH for AF Relaying. IEEE Communications Letters, 2021, 25, 1293 2.5 1099-1103. Design and Analysis of Full-Duplex Massive Antenna Array Systems Based on Wireless Power Transfer. 1294 7 4.9 IEEE Transactions on Communications, 2021, 69, 1302-1316. A Framed Slotted ALOHA-Based MAC for Eliminating Vain Wireless Power Transfer in Wireless 1295 1.8 Powered IoT Networks. Electronics (Switzerland), 2021, 10, 9. Energy-Efficient Resource Allocation in Radio-Frequency-Powered Cognitive Radio Network for 1296 4.7 13 Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5426-5436. Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. IEEE Internet of Things Journal, 2021, 8, 3972-3982. 5.5 14 Trajectory Design for UAV-Enabled Multiuser Wireless Power Transfer With Nonlinear Energy 1298 6.1 58 Harvesting. IEEE Transactions on Wireless Communications, 2021, 20, 1105-1121. Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems. IEEE Internet of Things 1299 Journal, 2021, 8, 5632-5644. Optimal Bandwidth Positions for a Terminal Embedded Antenna: Physical Bounds and Antenna Design. 1300 3.18 IEEE Transactions on Antennas and Propagation, 2021, 69, 1931-1941. Optimized Energy and Information Relaying in Self-Sustainable IRS-Empowered WPCN. IEEE Transactions on Communications, 2021, 69, 619-633.

#	Article	IF	CITATIONS
1302	On the Performance of Bidirectional NOMA-SWIPT Enabled IoT Relay Networks. IEEE Sensors Journal, 2021, 21, 2299-2315.	2.4	29
1303	Outage Analysis of Energy-Harvesting-Based Relay-Assisted Random Underlay Cognitive Radio Networks With Multihop Primary Transmissions. IEEE Systems Journal, 2021, 15, 3871-3880.	2.9	4
1304	A Stochastic Beamforming Algorithm for Wireless Sensor Network with Multiple Relays and Multiple Eavesdroppers. Wireless Personal Communications, 2021, 116, 2035-2048.	1.8	0
1305	Joint TS Beamforming and Hybrid TS-PS Receiving Design for SWIPT Systems. IEEE Access, 2021, 9, 50686-50699.	2.6	1
1306	SWIPT Model Adopting a PS Framework to Aid IoT Networks Inspired by the Emerging Cooperative NOMA Technique. IEEE Access, 2021, 9, 61489-61512.	2.6	14
1307	Hybrid Cyber Petri net Modelling, Simulation and Analysis of Master-Slave Charging for Wireless Rechargeable Sensor Networks. Sensors, 2021, 21, 551.	2.1	2
1308	Energy Efficiency Optimization for RF Energy Harvesting Relay System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 53-66.	0.2	0
1309	Time Allocation and Mode Selection for Secure Communications in Internet of Things. IEEE Internet of Things Journal, 2022, 9, 3743-3755.	5.5	0
1310	Small-Cell Sleeping and Association for Energy-Harvesting-Aided Cellular IoT With Full-Duplex Self-Backhauls: A Game-Theoretic Approach. IEEE Internet of Things Journal, 2022, 9, 2304-2318.	5.5	6
1311	Deep Learning Framework for Secure Communication With an Energy Harvesting Receiver. IEEE Transactions on Vehicular Technology, 2021, 70, 10121-10132.	3.9	6
1312	Resource Allocation for IRS-Assisted Wireless Powered Communication Networks. IEEE Wireless Communications Letters, 2021, 10, 2450-2454.	3.2	18
1313	Link Scheduling for Data Collection in Multihop Backscatter IoT Wireless Networks. IEEE Internet of Things Journal, 2022, 9, 2215-2226.	5.5	1
1314	Stochastic Geometry Analysis of Spatial-Temporal Performance in Wireless Networks: A Tutorial. IEEE Communications Surveys and Tutorials, 2021, 23, 2753-2801.	24.8	31
1315	Massive Wireless Energy Transfer With Statistical CSI Beamforming. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1169-1184.	7.3	6
1316	Signal Conditioning for Selective OFDM SWIPT Systems. IEEE Open Journal of the Communications Society, 2021, 2, 1886-1900.	4.4	1
1317	Performance Analysis of Energy Harvesting-Assisted Overlay Cognitive NOMA Systems With Incremental Relaying. IEEE Open Journal of the Communications Society, 2021, 2, 1558-1576.	4.4	17
1318	An Advanced Unmanned Aerial Vehicle (UAV) Approach via Learning-Based Control for Overhead Power Line Monitoring: A Comprehensive Review. IEEE Access, 2021, 9, 130410-130433.	2.6	18
1319	A Survey of Energy and Spectrum Harvesting Technologies and Protocols for Next Generation Wireless Networks. IEEE Access, 2021, 9, 1737-1769.	2.6	16

	Сітаті	on Report	
#	Article	IF	CITATIONS
1320	An Efficient Energy Harvesting and Optimal Clustering Technique for Sustainable Postdisaster Emergency Communication Systems. IEEE Access, 2021, 9, 78188-78202.	2.6	23
1321	Multi-slot energy harvesting wireless communication in interference environment. Mathematical Biosciences and Engineering, 2021, 18, 4127-4145.	1.0	0
1322	Short-Packet Backscatter Assisted Wireless-Powered Relaying With NOMA: Mode Selection With Performance Estimation. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 216-231.	4.9	9
1323	Multiple Access Control in a Centralized Full-Duplex Cognitive Machine Type Network with RF Energy Harvesting. Wireless Personal Communications, 2021, 118, 949-960.	1.8	0
1324	Transmit Power Minimization in Bidirectional Tag-to-Device Communications for loT. , 2021, , .		1
1325	SLIPT for Underwater Visible Light Communications: Performance Analysis and Optimization. IEEE Transactions on Wireless Communications, 2021, 20, 6715-6728.	6.1	30
1326	Learning to Charge RF-Energy Harvesting Devices in WiFi Networks. IEEE Systems Journal, 2021, 15, 5516-5525.	2.9	5
1327	A Green Routing Protocol with Wireless Power Transfer for Internet of Things. Journal of Sensor and Actuator Networks, 2021, 10, 6.	2.3	6
1328	Rate-Energy Balanced Precoding Design for SWIPT Based Two-Way Relay Systems. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1228-1241.	7.3	5
1329	Radio Resource Management in Joint Radar and Communication: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 780-814.	24.8	82
1330	Multiband Patch Antenna Design Using Nature-Inspired Optimization Method. IEEE Open Journal of Antennas and Propagation, 2021, 2, 151-162.	2.5	32
1331	A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. IEEE Internet of Things Journal, 2021, 8, 15486-15499.	5.5	6
1332	Optimizing Information Freshness in MEC-Assisted Status Update Systems With Heterogeneous Energy Harvesting Devices. IEEE Internet of Things Journal, 2021, 8, 17057-17070.	5.5	7
1333	Spectrum sharing protocol in two-way cognitive radio networks with energy accumulation in relay node. Peer-to-Peer Networking and Applications, 2021, 14, 837-851.	2.6	3
1334	Wireless Power Transfer System Design for Low-Rate In-Cabin Applications. , 2021, , .		1
1335	Submicrowatt CMOS Rectifier for a Fully Passive Wake-Up Receiver. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4803-4812.	2.9	11
1336	Average Peak Age of Information Analysis for Wireless Powered Cooperative Networks. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 1291-1303.	4.9	15
1337	Aol Minimization Data Collection Scheduling for Battery-Free Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2021, , 1-1.	3.9	9

#	Article	IF	CITATIONS
1338	Distributed Resource Allocation in RF-Powered Cognitive Ambient Backscatter Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 1657-1668.	3.5	9
1339	Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2021, 8, 112-128.	5.5	15
1340	Dynamic Power Splitting Simultaneous Wireless Information and Power Transfer Split Receiver for Wireless Sensor Networks. IEEE Access, 2021, 9, 129407-129416.	2.6	4
1341	The Broadcast Approach in Communication Networks. Entropy, 2021, 23, 120.	1.1	11
1342	A Design of Adaptive Control and Communication Protocol for SWIPT System in 180 nm CMOS Process for Sensor Applications. Sensors, 2021, 21, 848.	2.1	2
1343	Performance Analysis of Clustered Wireless-Powered Ad Hoc Networks via <i>β</i> -Ginibre Point Processes. IEEE Transactions on Wireless Communications, 2021, 20, 7475-7489.	6.1	6
1344	Secure Communication With Energy-Harvesting Buffer-Aided Jammer. IEEE Open Journal of the Communications Society, 2021, 2, 1799-1808.	4.4	0
1345	A Co-Scheduling Framework for DNN Models on Mobile and Edge Devices with Heterogeneous Hardware. IEEE Transactions on Mobile Computing, 2021, , 1-1.	3.9	6
1346	Energy Efficiency Maximization for IRS-Aided WPCNs. IEEE Wireless Communications Letters, 2021, 10, 2304-2308.	3.2	7
1348	Self-Adaptive Rectenna with High Efficiency over a Wide Dynamic Range for RF Energy Harvesting Applications. Journal of Communications, 2021, , 67-75.	1.3	2
1349	Simultaneous Wireless Information and Power Transfer With Cooperative Relaying for Next-Generation Wireless Networks: A Review. IEEE Access, 2021, 9, 71482-71504.	2.6	33
1350	System Performance Analysis for an Energy Harvesting IoT System Using a DF/AF UAV-Enabled Relay with Downlink NOMA under Nakagami-m Fading. Sensors, 2021, 21, 285.	2.1	15
1351	Analysis on Energy Harvesting Techniques for Underwater Wireless Sensor Networks. , 2021, , .		6
1352	Analysis and Design of a Wireless Sensor Network Based on the Residual Energy of the Nodes and the Harvested Energy from Mint Plants. Journal of Sensors, 2021, 2021, 1-26.	0.6	1
1353	Adaptive RF Energy Harvesting Relaying Protocol for Bidirectional Multi-Relay Multi-antenna Cooperative Network over Nakagami Fading. , 2021, , .		0
1354	Green communication for OFDMA cellular networks with multiple antennas. Computer Communications, 2021, 168, 93-101.	3.1	2
1355	Triangulated Cylinder Origami-Based Piezoelectric/Triboelectric Hybrid Generator to Harvest Coupled Axial and Rotational Motion. Research, 2021, 2021, 7248579.	2.8	25
1356	Switchable Coupled Relays Aid Massive Non-Orthogonal Multiple Access Networks with Transmit Antenna Selection and Energy Harvesting. Sensors, 2021, 21, 1101.	2.1	5

#	Article	IF	CITATIONS
1357	Wideband Anti-Jamming Based on Free Space Optical Communication and Photonic Signal Processing. Sensors, 2021, 21, 1136.	2.1	0
1358	Energy-Harvesting Aided Unmanned Aerial Vehicles for Reliable Ground User Localization and Communications Under Lognormal-Nakagami-\$m\$ Fading Channels. IEEE Transactions on Vehicular Technology, 2021, 70, 1632-1647.	3.9	9
1359	Resource Allocation for MIMO Full-Duplex Backscatter Assisted Wireless-Powered Communication Network With Finite Alphabet Inputs. IEEE Transactions on Communications, 2021, 69, 1275-1289.	4.9	6
1360	A Dynamic Weights Algorithm on Information and Energy Transmission Protocol Based on WBAN. IEEE Transactions on Vehicular Technology, 2021, 70, 1528-1537.	3.9	8
1361	Internet of things energy system: Smart applications, technology advancement, and open issues. International Journal of Energy Research, 2021, 45, 8389-8419.	2.2	34
1362	Green computing in IoT: Time slotted simultaneous wireless information and power transfer. Computer Communications, 2021, 168, 155-169.	3.1	18
1363	Bio-based Materials for Microwave Devices: A Review. Journal of Electronic Materials, 2021, 50, 1893-1921.	1.0	8
1364	Development of Water Pipelines Energy Harvesting System. Journal of Physics: Conference Series, 2021, 1793, 012041.	0.3	2
1365	Impact of Varying Radio Power Density on Wireless Communications of RF Energy Harvesting Systems. IEEE Transactions on Communications, 2021, 69, 1960-1974.	4.9	11
1366	A Reinforcement Learning Approach to Optimize Energy Usage in RF-Charging Sensor Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 526-539.	3.5	5
1367	Optimal Power Control, Scheduling, and Energy Harvesting for Wireless Networked Control Systems. IEEE Transactions on Communications, 2021, 69, 1789-1801.	4.9	6
1368	Waveforms and End-to-End Efficiency in RF Wireless Power Transfer Using Digital Radio Transmitter. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1917-1931.	2.9	12
1369	Adaptive secure transmission for wireless powered communication networks. China Communications, 2021, 18, 155-173.	2.0	0
1370	Performance Analysis of Millimeter Wave Wireless Power Transfer With Imperfect Beam Alignment. IEEE Transactions on Vehicular Technology, 2021, 70, 2605-2618.	3.9	9
1371	Two-Layer Stackelberg Game-Based Offloading Strategy for Mobile Edge Computing Enhanced FiWi Access Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 457-470.	3.5	14
1372	Analysis of Harvested Energy From Mobile and Fixed Nodes. IEEE Communications Letters, 2021, 25, 1005-1009.	2.5	1
1373	A novel model to eliminate the doubly nearâ€far problem in wireless powered communication network. IET Communications, 2021, 15, 1539.	1.5	2
1374	UAV-Aided Information and Energy Transmissions for Cognitive and Sustainable 5G Networks. IEEE Transactions on Wireless Communications, 2021, 20, 1668-1683.	6.1	27

#	Article	IF	CITATIONS
1375	Study of Hardware Imperfections in SWIPT Power Splitting Architecture. , 2021, , .		1
1376	Outage probability analysis of overlay cognitive twoâ€way relaying scheme with opportunistic relay selection. IET Networks, 2021, 10, 230-243.	1.1	0
1377	Joint timeâ€ <b>s</b> lot and power allocation algorithm for data and energy integrated networks supporting internet of things (IoT). International Journal of Communication Systems, 2021, 34, e4769.	1.6	3
1378	Wireless energy transfer policies for cognitive radio based MAC in energy-constrained IoT networks. Telecommunication Systems, 2021, 77, 435-449.	1.6	2
1379	System and Design for Selective OFDM SWIPT Transmission. IEEE Transactions on Green Communications and Networking, 2021, 5, 335-347.	3.5	9
1380	Optimization of SWIPT With Battery-Assisted Energy Harvesting Full-Duplex Relays. IEEE Transactions on Green Communications and Networking, 2021, 5, 243-260.	3.5	11
1381	2.4 GHz Wearable Textile Antenna/Rectenna for Simultaneous Information and Power Transfer. , 2021, , $\cdot$		5
1382	On the Retrial-Queuing Model for Strategic Access and Equilibrium-Joining Strategies of Cognitive Users in Cognitive-Radio Networks with Energy Harvesting. Energies, 2021, 14, 2088.	1.6	4
1383	Secrecy-Oriented Optimization of Sparse Code Multiple Access for Simultaneous Wireless Information and Power Transfer in 6G Aerial Access Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	0.8	3
1384	Securing hybrid channel access cognitive radio networks with energy harvesting. Physical Communication, 2021, 45, 101260.	1.2	3
1385	Implementation of RF Energy Harvesting System with Efficiency Improvement by Using Metamaterials. , 2021, , .		2
1386	Ultra-Low-Power Wide Range Backscatter Communication Using Cellular Generated Carrier. Sensors, 2021, 21, 2663.	2.1	4
1388	Data tampering attacks diagnosis in dynamic wireless sensor networks. Computer Communications, 2021, 172, 84-92.	3.1	12
1389	A Maximum Throughput Design for Wireless Powered Communication Networks With IRS-NOMA. IEEE Wireless Communications Letters, 2021, 10, 849-853.	3.2	27
1390	Power density improvement based on investigation of initial relative position in an electromagnetic energy harvester with self-powered applications. Smart Materials and Structures, 2021, 30, 065005.	1.8	20
1391	Energy-efficient Optimization for IRS-assisted Wireless-powered Communication Networks. , 2021, , .		4
1392	Joint source and relay beamforming design and time allocation for wireless powered multi-relay multi-user network. Wireless Networks, 2021, 27, 2729-2741.	2.0	1
1394	Optimal decision making in multi-channel RF-powered cognitive radio networks with ambient backscatter capability. Computer Networks, 2021, 189, 107907.	3.2	2

#	Article	IF	CITATIONS
1395	Modeling the Message Alternative Routes in a Large Scale Wireless Sensor Network. , 2021, , .		3
1396	A Novel 5G Wideband Metamaterial Based Absorber for Microwave Energy Harvesting Applications. , 2021, , .		6
1397	Fairness-Aware Resource Allocation in Full-Duplex Backscatter-Assisted Wireless Powered Communication Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	0.8	2
1398	SWIPT-Assisted Energy Efficiency Optimization in 5G/B5G Cooperative IoT Network. Energies, 2021, 14, 2515.	1.6	13
1399	Simultaneous Wireless Power Transfer and Modulation Classification. , 2021, , .		0
1400	An Optically Transparent Near-Field Focusing Metasurface. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2015-2027.	2.9	45
1401	Bistatic Backscatter Communication: Shunt Network Design. IEEE Internet of Things Journal, 2021, 8, 7691-7705.	5.5	4
1402	Simulation of College Students' Political and Ideological Tendency Estimation Model. , 2021, , .		0
1403	Triple-Band Single-Layer Rectenna for Outdoor RF Energy Harvesting Applications. Sensors, 2021, 21, 3460.	2.1	13
1404	Energy-Adaptive and Bottleneck-Aware Many-to-Many Communication Scheduling for Battery-Free WSNs. IEEE Internet of Things Journal, 2021, 8, 8514-8529.	5.5	12
1405	Age of Information-Based Wireless Powered Communication Networks With Selfish Charging Nodes. IEEE Journal on Selected Areas in Communications, 2021, 39, 1393-1411.	9.7	20
1406	Outage and Throughput Performance of Half/Full-Duplex UAV-Assisted Co-Operative Relay Networks Over Weibull Fading Channel. Wireless Personal Communications, 2021, 120, 2389-2407.	1.8	11
1407	Throughput Maximization of Hybrid Access in Multi-Class Cognitive Radio Networks With Energy Harvesting. IEEE Transactions on Communications, 2021, 69, 2962-2974.	4.9	18
1408	Harvesting Devices' Heterogeneous Energy Profiles and QoS Requirements in IoT: WPT-NOMA vs BAC-NOMA. IEEE Transactions on Communications, 2021, 69, 2837-2850.	4.9	27
1409	Experimental Demonstration of Wireless Energy Harvesting for ZigBee Wireless Communication. , 2021, , .		1
1410	A Simple WiFi Harvester with a Switching-Based Power Management Scheme to Collect Energy from Ordinary Routers. Electronics (Switzerland), 2021, 10, 1191.	1.8	3
1411	Green UAV communications for 6G: A survey. Chinese Journal of Aeronautics, 2022, 35, 19-34.	2.8	91
1412	RF Energy Harvesting and Management for Near-Zero Power Passive Devices. , 2021, , .		5

#	Article	IF	CITATIONS
1413	Towards a Real-Time Wireless Powered Communication Network: Design, Implementation and Evaluation. , 2021, , .		3
1414	Game-based approach of fair resource allocation in wireless powered cooperative cognitive radio networks. AEU - International Journal of Electronics and Communications, 2021, 134, 153699.	1.7	9
1415	Energy-Efficient and Delay-Minimizing Charging Method With a Multiple Directional Mobile Charger. IEEE Internet of Things Journal, 2021, 8, 8291-8303.	5.5	6
1416	Device-Selective Energy Request in RF Energy-Harvesting Networks. IEEE Communications Letters, 2021, 25, 1716-1719.	2.5	7
1417	Radiofrequency Energy Harvesting for Wireless Sensor Node: Design Guidelines and Current Circuits Performance. , 0, , .		2
1418	Evaluating the Performance of Full-Duplex Energy Harvesting Vehicle-to-Vehicle Communication System over Double Rayleigh Fading Channels. Mobile Networks and Applications, 2021, 26, 1777-1787.	2.2	1
1419	Cooling-Aware Optimization of Edge Server Configuration and Edge Computation Offloading brk? for Wirelessly Powered Devices. IEEE Transactions on Vehicular Technology, 2021, 70, 5043-5056.	3.9	7
1420	Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. IEEE Internet of Things Journal, 2021, 8, 8585-8602.	5.5	46
1421	Analyzing SLIPT for DF Based Mixed FSO-RF Communication System. , 2021, , .		2
1422	Emerging cooperative MIMO-NOMA networks combining TAS and SWIPT protocols assisted by an AF-VG relaying protocol with instantaneous amplifying factor maximization. AEU - International Journal of Electronics and Communications, 2021, 135, 153695.	1.7	8
1423	Average Age-of-Information Minimization in EH-enabled Low-Latency IoT Networks. , 2021, , .		6
1424	On Distributed Node Sleep Scheduling Optimization Method Based on Time Switching of SWIPT. , 2021, , $\cdot$		0
1425	Wireless Power Transfer (WPT) Fundamentals with Resonant Frequency-Dependent Parameters, Energy Transfer Efficiency, and Green Technology Applications. , 2021, , .		5
1426	WiFED Mobile: WiFi Friendly Energy Delivery With Mobile Distributed Beamforming. IEEE/ACM Transactions on Networking, 2021, 29, 1362-1375.	2.6	7
1427	Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. IEEE Internet of Things Journal, 2021, 8, 9233-9243.	5.5	65
1428	Defeating Reactive Jammers with Deep Dueling-based Deception Mechanism. , 2021, , .		1
1429	Wavelet Modulation For Energy Efficient Wireless Sensors Networks with Simultaneous Wireless Information and Power Transfer. , 2021, , .		1
1430	Massive Wireless Energy Transfer: Enabling Sustainable IoT Toward 6G Era. IEEE Internet of Things Journal, 2021, 8, 8816-8835.	5.5	94

#	Article	IF	CITATIONS
1431	Towards Autonomous Node Sensors: Green Versus RF Energy Harvesting. , 2021, , .		2
1432	UAV-Assisted Resource Allocation Strategy in Energy Harvesting Edge Computing System. , 2021, , .		1
1433	Wireless Power and Energy Harvesting Control in IoD by Deep Reinforcement Learning. IEEE Transactions on Green Communications and Networking, 2021, 5, 980-989.	3.5	20
1434	A comparative study of integrated RF to DC power conversion system for RF energy harvesting. Materials Today: Proceedings, 2021, , .	0.9	1
1435	Slotted ALOHA for Wireless Powered Resource-Constrained Networks. , 2021, , .		0
1436	A New Non-Linear Joint Model for RF Energy Harvesters in Wireless Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 895-907.	3.5	2
1437	Destination-Based Cooperative Jamming in Security UAV Relay System with SWIPT. , 2021, , .		1
1438	Transmit antenna selection – An effective method for improving the performance of spatial modulation full-duplex relay networks with wireless energy harvesting. AEU - International Journal of Electronics and Communications, 2021, 135, 153737.	1.7	1
1439	Learning to Optimize Energy Efficiency in Energy Harvesting Wireless Sensor Networks. IEEE Wireless Communications Letters, 2021, 10, 1153-1157.	3.2	8
1440	Resource Allocation Strategy for Dual UAVs-Assisted MEC System with Hybrid Solar and RF Energy Harvesting. , 2021, , .		5
1442	Joint Design of UAV Trajectory and Directional Antenna Orientation in UAV-Enabled WPT Networks. , 2021, , .		0
1443	Throughput Maximization for Wireless Powered Communication: Reinforcement Learning Approaches. , 2021, , .		2
1444	Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. IEEE Internet of Things Journal, 2021, 8, 10543-10556.	5.5	19
1445	Dual-Band Frequency Selective Surface Design Using Harris Hawks Optimization. , 2021, , .		2
1446	Sensor Networks for Structures Health Monitoring: Placement, Implementations, and Challenges—A Review. Vibration, 2021, 4, 551-584.	0.9	30
1447	Simultaneous Wireless Information and Power Transfer in Low-Latency Relaying Networks with Nonlinear Energy Harvesting. , 2021, , .		3
1448	Petri-Net Based Multi-Objective Optimization in Multi-UAV Aided Large-Scale Wireless Power and Information Transfer Networks. Remote Sensing, 2021, 13, 2611.	1.8	7
1449	Analysis of SWIPT-Enabled Relay Networks with Full-Duplex Destination-Aided Jamming. Security and Communication Networks, 2021, 2021, 1-18.	1.0	1

#	Article	IF	CITATIONS
1450	Design and Characterization of a 900 MHz Energy Harvesting Prototype. IETE Journal of Research, 2023, 69, 4700-4706.	1.8	3
1451	A Survey on Battery-Less RFID-Based Wireless Sensors. Micromachines, 2021, 12, 819.	1.4	20
1452	RIS-Enhanced WPCNs: Joint Radio Resource Allocation and Passive Beamforming Optimization. IEEE Transactions on Vehicular Technology, 2021, 70, 7980-7991.	3.9	43
1453	Distributed Transmit Power Control for Energy-Efficient Wireless-Powered Secure Communications. Sensors, 2021, 21, 5861.	2.1	1
1454	Outage and throughput analysis of UAV-assisted wireless-powered IoT sensor networks over Nakagami-m fading channel with non-linear energy harvester. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	0.8	3
1455	Smart Irrigation System for Precision Agriculture—The AREThOU5A IoT Platform. IEEE Sensors Journal, 2021, 21, 17539-17547.	2.4	73
1456	Opportunistic DF-AF Selection Relaying in Hybrid Wireless and Power Line Communication for Indoor IoT Networks. Sensors, 2021, 21, 5469.	2.1	1
1457	Energy harvesting effect on prolonging low-power lossy networks lifespan. International Journal of Distributed Sensor Networks, 2021, 17, 155014772110285.	1.3	0
1458	Learning Driven Resource Allocation and SIC Ordering in EH Relay Aided NB-IoT Networks. IEEE Communications Letters, 2021, 25, 2619-2623.	2.5	7
1459	Deep Learning for SWIPT: Optimization of Transmit-Harvest-Respond in Wireless-Powered Interference Channel. IEEE Transactions on Wireless Communications, 2021, 20, 5018-5033.	6.1	16
1460	Sustainable Wireless Sensor Networks With UAV-Enabled Wireless Power Transfer. IEEE Transactions on Vehicular Technology, 2021, 70, 8050-8064.	3.9	19
1461	A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2021, 8, 12329-12338.	5.5	3
1462	Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks. IEEE Internet of Things Journal, 2021, 8, 12266-12278.	5.5	2
1463	Most Efficient Sensor Network Protocol for a Permanent Natural Disaster Monitoring System. IEEE Internet of Things Journal, 2021, 8, 11776-11792.	5.5	3
1464	Time Switching Based Wireless Powered Relay Transmission with Uplink NOMA. Sensors, 2021, 21, 5467.	2.1	1
1465	Joint Optimization of Spectral Efficiency and Energy Harvesting in D2D Networks Using Deep Neural Network. IEEE Transactions on Vehicular Technology, 2021, 70, 8361-8366.	3.9	9
1466	Energy-Efficient Bandwidth and Power Allocation in Relay-Assisted Multi-Layer Heterogeneous Networks with Energy Harvesting. Journal of Shanghai Jiaotong University (Science), 0, , 1.	0.5	0
1467	Wireless Power Transfer for Aircraft IoT Applications: System Design and Measurements. IEEE Internet of Things Journal, 2021, 8, 11834-11846.	5.5	9

#	Article	IF	CITATIONS
1468	Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2021, 8, 13397-13413.	5.5	13
1469	Theoretical Analysis of Nonlinear Energy Harvesting From Wireless Mobile Nodes. IEEE Wireless Communications Letters, 2021, 10, 1914-1918.	3.2	3
1470	Joint optimization of antenna selection and beamforming in MIMO SWIPT systems with bidirectional communication. IET Communications, 0, , .	1.5	0
1471	Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay. IEEE Internet of Things Journal, 2021, 8, 13343-13354.	5.5	99
1472	An Efficient Spectrum Utilization Scheme for Energy-Constrained IoT Devices in Cellular Networks. IEEE Internet of Things Journal, 2021, 8, 13414-13424.	5.5	3
1473	Combining RF energy harvesting and cooperative communications for low-power wide-area systems. AEU - International Journal of Electronics and Communications, 2021, 139, 153909.	1.7	6
1474	NOMA for Wireless-Powered Communication Networks With Buffered Sources. IEEE Transactions on Vehicular Technology, 2021, 70, 9088-9102.	3.9	2
1475	IRS-Assisted Green Communication Systems: Provable Convergence and Robust Optimization. IEEE Transactions on Communications, 2021, 69, 6313-6329.	4.9	52
1476	On the application of circuit theory and nonlinear dynamics to the design of highly efficient energy harvesting systems. , 2021, , .		3
1477	Novel Design Framework for Dual-Band Frequency Selective Surfaces Using Multi-Variant Differential Evolution. Mathematics, 2021, 9, 2381.	1.1	4
1478	Joint Design of UAV Trajectory and Directional Antenna Orientation in UAV-Enabled Wireless Power Transfer Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 3081-3096.	9.7	34
1479	Online policies for throughput maximization of backscatter assisted wireless powered communication via reinforcement learning approaches. Pervasive and Mobile Computing, 2021, 77, 101463.	2.1	5
1480	A Review of Current Research Trends in Power-Electronic Innovations in Cyber–Physical Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5146-5163.	3.7	48
1481	Scopes, challenges and approaches of energy harvesting for wireless sensor nodes in machine condition monitoring systems: A review. Measurement: Journal of the International Measurement Confederation, 2021, 183, 109856.	2.5	41
1482	Resources optimization for secure transmission in wireless powered communication networks. Computer Communications, 2021, 179, 82-91.	3.1	0
1483	A Review of Metasurfaces for Microwave Energy Transmission and Harvesting in Wireless Powered Networks. IEEE Access, 2021, 9, 27518-27539.	2.6	25
1484	Regularized Zero Forcing Beamforming for Serving More Users in Energy-Harvesting Enabled Networks. , 2021, , .		0
1485	UAV-Aided Energy-Efficient Edge Computing Networks: Security Offloading Optimization. IEEE Internet of Things Journal, 2022, 9, 4245-4258.	5.5	27

#	Article	IF	CITATIONS
1486	Phase Aligned Time-Reversal for Multi-User Wireless Power Transfer Systems With Non-Linear Energy Harvesting. IEEE Access, 2021, 9, 109976-109985.	2.6	3
1487	Joint Link Scheduling and Routing in Two-Tier RF-Energy-Harvesting IoT Networks. IEEE Internet of Things Journal, 2022, 9, 800-812.	5.5	4
1488	Dual-Band Dual-Mode Textile Antenna/Rectenna for Simultaneous Wireless Information and Power Transfer (SWIPT). IEEE Transactions on Antennas and Propagation, 2021, 69, 6322-6332.	3.1	52
1489	A Dual-Band Ambient Energy Harvesting Rectenna Design for Wireless Power Communications. IEEE Access, 2021, 9, 99944-99953.	2.6	32
1490	Energy-Efficient Joint Task Assignment and Power Control in Energy-Harvesting D2D Offloading Communications. IEEE Internet of Things Journal, 2022, 9, 6018-6031.	5.5	15
1491	A Highly-Efficient RF Energy Harvester Using Passively-Produced Adaptive Threshold Voltage Compensation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4603-4615.	3.5	6
1492	Beamforming and Resource Allocation for Charging Power Minimization in Multiuser Wireless-Powered Networks. IEEE Access, 2021, 9, 136231-136242.	2.6	1
1493	Resonator Rectenna Design Based on Metamaterials for Low-RF Energy Harvesting. Computers, Materials and Continua, 2021, 68, 1731-1750.	1.5	7
1495	Wireless Power Transmission Scheme Employing Phase Control for WSN. , 2021, , .		2
1496	A Survey of Cooperative Jamming-Based Secure Transmission for Energy-Limited Systems. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	0.8	6
1497	Evaluation of Simultaneous Wireless Information and Power Transfer with Distributed Antennas. , 2021, , .		1
1498	Computation Scheduling of Multi-Access Edge Networks Based on the Artificial Fish Swarm Algorithm. IEEE Access, 2021, 9, 74674-74683.	2.6	11
1499	A Joint Beamforming and Power-Splitter Optimization Technique for SWIPT in MISO-NOMA System. IEEE Access, 2021, 9, 33018-33029.	2.6	3
1500	Analysis and Experiment on Multi-Antenna-to-Multi-Antenna RF Wireless Power Transfer. IEEE Access, 2021, 9, 2018-2031.	2.6	11
1501	Wireless Power Transfer for Future Networks: Signal Processing, Machine Learning, Computing, and Sensing. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1060-1094.	7.3	55
1502	Displacement Current-Based Energy Harvesters in Power Grids: Topologies and Performance Evaluation. IEEE Industrial Electronics Magazine, 2022, 16, 52-66.	2.3	8
1503	Self-Powered Food Assessment System Using LSTM Network and 915 MHz RF Energy Harvesting. IEEE Access, 2021, 9, 97444-97456.	2.6	11
1504	Learning-Based Optimization of Wireless-Powered Two-Way Interference Channels With Imperfect CSI. IEEE Internet of Things Journal, 2022, 9, 6934-6943.	5.5	0

#	Article	IF	CITATIONS
1505	Overlay Cognitive IoT-Based Full-Duplex Relaying NOMA Systems With Hardware Imperfections. IEEE Internet of Things Journal, 2022, 9, 6578-6596.	5.5	24
1506	RF energy modelling using machine learning for energy harvesting communications systems. International Journal of Communication Systems, 2021, 34, e4688.	1.6	11
1507	How to make key 5G wireless technologies environmental friendly: A review. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3254.	2.6	40
1508	Cooperative nonâ€orthogonal multiple access with SWIPT over Nakagamiâ€ <i>m</i> fading channels. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3571.	2.6	25
1509	Reusing Wireless Power Transfer for Backscatter-Assisted Cooperation in WPCN. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 229-239.	0.2	8
1510	On Secure Cooperative Non-orthogonal Multiple Access Network with RF Power Transfer. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 117-129.	0.2	1
1511	Internet of Things in Agricultural Innovation and Security. Internet of Things, 2020, , 71-112.	1.3	32
1512	RF Energy Harvesting Networks: Existing Techniques and Hardware Technology. , 2018, , 189-239.		2
1513	On outage secrecy minimisation in an energy harvesting relay assisted cognitive radio networks. IET Communications, 2018, 12, 2253-2265.	1.5	7
1514	Performance off clusterâ€based multiâ€hop underlay networks with energy harvesting nodes. IET Communications, 2020, 14, 1476-1484.	1.5	5
1515	DC voltage boosting technique in radio frequency wireless power transfer systems utilising high PAPR digital modulations. IET Microwaves, Antennas and Propagation, 2019, 13, 2457-2463.	0.7	4
1516	Analysing outage probability of linear and nonâ€linear RF energy harvesting of cooperative communication networks. IET Signal Processing, 2020, 14, 541-550.	0.9	5
1517	A low-profile single band dielectric resonator antenna for radio frequency energy harvesting. , 2020,		3
1518	Secrecy Performance of an improved Interference-aided RF Energy Harvesting scheme in Two-Way Multi-Antenna Relay Network. , 2020, , .		2
1519	Optimal Resource Allocation for RF-Powered Underlay Cognitive Radio Networks With AmbientÂBackscatter Communication. IEEE Transactions on Vehicular Technology, 2020, 69, 15216-15228.	3.9	38
1520	On the Performance of MIMO Full-Duplex Relaying System With SWIPT Under Outdated CSI. IEEE Transactions on Vehicular Technology, 2020, 69, 15580-15593.	3.9	15
1521	Intermittent Learning. , 2019, 3, 1-30.		21
1522	Reliable Timekeeping for Intermittent Computing. , 2020, , .		57

#	Article	IF	CITATIONS
1523	Latency-efficient Data Collection Scheduling in Battery-free Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2020, 16, 1-21.	2.3	13
1524	Road to 5G: Key Enabling Technologies. Journal of Communications, 2019, , 1034-1048.	1.3	18
1525	State of the Art Compendium of Macro and Micro Energies. Advances in Science and Technology Research Journal, 2019, 13, 88-109.	0.4	63
1526	Radio Frequency Energy Harvesting Sources. Acta Electrotechnica Et Informatica, 2017, 17, 19-27.	0.3	18
1527	Multi-Cell Structure Backscatter Based Wireless-Powered Communication Network (WPCN). IEICE Transactions on Communications, 2016, E99.B, 1687-1696.	0.4	6
1528	AN-Aided Transmission Design for Secure MIMO Cognitive Radio Network with SWIPT. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 946-952.	0.2	2
1529	Double Patch Antenna Array for Communication and Out-of-band RF Energy Harvesting. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2020, 19, 356-365.	0.4	5
1530	Joint Communication and Computation Optimization for Wireless Powered Mobile Edge Computing with D2D Offloading. Journal of Communications and Information Networks, 2019, 4, 72-86.	3.5	13
1531	New Wideband Passive and Active Wearable Energy Harvesting Systems for Wearable Sensors. Journal of Sensor Technology, 2017, 07, 53-70.	0.4	2
1532	Optimal Transceiver Design for SWIPT in Interference Alignment Network. Advances in Electrical and Computer Engineering, 2020, 20, 19-26.	0.5	1
1533	Enabling Wireless Power Transfer and Multiple Antennas Selection to IoT Network Relying on NOMA. Elektronika Ir Elektrotechnika, 2020, 26, 59-65.	0.4	3
1534	Throughput Enhancement in FD- and SWIPT-Enabled IoT Networks Over Nonidentical Rayleigh Fading Channels. IEEE Internet of Things Journal, 2022, 9, 10172-10186.	5.5	9
1535	Optimal Power Splitting of Wireless Information and Power Transmission Using a Novel Dual-Channel Rectenna. IEEE Transactions on Antennas and Propagation, 2022, 70, 1846-1856.	3.1	14
1536	Joint Coordinated Beamforming and Power Splitting Ratio Optimization in MU-MISO SWIPT-Enabled HetNets: A Multi-Agent DDQN-Based Approach. IEEE Journal on Selected Areas in Communications, 2022, 40, 677-693.	9.7	36
1537	Input Power Range Extension Using Duty-Cycling and Granularity Reduction in a 5.8GHz RF Energy Harvester Dynamic Matching Circuit. , 2021, , .		0
1538	Resource Allocation Based on Deep Reinforcement Learning for Wideband Cognitive Radio Networks. , 2021, , .		3
1539	Short Chorus Packets in Radiation Belts: Statistics and Role in Energetic Electron Acceleration. , 2021,		0
1540	Latency Constrained Simultaneous Wireless Information and Power Transfer. , 2021, , .		1

#	Article	IF	CITATIONS
1541	Non-Coherent Reception of Signals with an Intrasymbol Pseudorandom Frequency Hopping with Majority Addition of Subsymbols. Journal of Communications Technology and Electronics, 2021, 66, 1039-1044.	0.2	0
1542	Enhanced Physical Layer Security for Energy Harvesting Relayâ€Aided Systems Using Joint Relaying Scheme. Internet Technology Letters, 0, , e330.	1.4	0
1543	Çift Bantlı RF Enerji Hasadı İçin Toplu Eleman Devre Yapıları. European Journal of Science and Technology, 0, , .	0.5	0
1544	PassiveLiFi., 2021,,.		5
1545	ENERGY EFFICIENT ROUTING IN COGNITIVE RADIO NETWORKS: CHALLENGES AND EXISTING SOLUTIONS. ICTACT Journal on Communication Technology, 2015, 06, 1049-1052.	0.2	0
1546	Backscatter Communication for Wireless-Powered Communication Networks. The Journal of Korean Institute of Communications and Information Sciences, 2015, 40, 1900-1911.	0.0	1
1547	RF Energy Transfer Testbed Based on Off-the-shelf Components for IoT Application. The Journal of Korean Institute of Communications and Information Sciences, 2015, 40, 1912-1921.	0.0	3
1548	Development of Far Field RF Power Harvesting Testbed. The Journal of Korean Institute of Communications and Information Sciences, 2015, 40, 1922-1930.	0.0	2
1549	Two-Hop Co-Located Robust Precoding Design in Radio SWIPT Relay Networks. Journal of Communications, 2016, , .	1.3	2
1550	From Web Analytics to Product Analytics: The Internet of Things as a New Data Source for Enterprise Information Systems. Lecture Notes in Business Information Processing, 2016, , 145-155.	0.8	0
1551	Joint Routing, Scheduling, and Power Control for Wireless Sensor Networks with RF Energy Transfer Considering Fairness. The Journal of Korean Institute of Communications and Information Sciences, 2016, 41, 206-214.	0.0	0
1552	Proposed Technologies for Solving Future 5G Heterogeneous Networks Challenges. International Journal of Computer Applications, 2016, 142, 1-8.	0.2	1
1553	Optimization and analysis of WLAN RF energy harvesting system architecture. , 2016, , .		7
1554	Energy Outage Probability and Achievable Throughput of 2-Channel Sensing Secondary Users in RF Powered Cognitive Radio Networks. The Journal of Korean Institute of Communications and Information Sciences, 2016, 41, 1044-1053.	0.0	0
1555	Performance analysis of energy-harvesting relay selection systems with multiple antennas in presence of transmit hardware impairments. , 2016, , .		4
1556	Basic Concepts of Internet of Things and Game Theory. Advances in Web Technologies and Engineering Book Series, 2017, , 1-12.	0.4	0
1557	Energy-Aware Network Control Approaches. Advances in Web Technologies and Engineering Book Series, 2017, , 148-170.	0.4	0
1558	Optimal Power Allocation Based on Transmission Completion Time Minimization for Energy Harvesting Relay Networks. Journal of Communications, 2017, , .	1.3	2

#	Article	IF	CITATIONS
1559	Throughput Analysis of a SWIPT Enabled Two-Way Decode-and-Forward Cognitive Relay Network. Lecture Notes in Computer Science, 2017, , 172-182.	1.0	0
1560	Optimal Design for Power Beacon Assisted Wireless Communication Networks With Integrated Services. , 2017, , .		0
1561	An Adaptive MAC Protocol for Wireless Rechargeable Sensor Networks. Lecture Notes in Computer Science, 2017, , 244-252.	1.0	0
1562	Efficient Wireless Power Transfer Maximization Algorithms in the Vector Model. , 2018, , 297-322.		0
1563	Performance Analysis of Wireless Powered Cognitive Radio Networks. Advances in Intelligent Systems and Computing, 2018, , 554-562.	0.5	0
1564	Introduction, Recent Results, and Challenges in Wireless Information and Power Transfer. , 2018, , 3-28.		1
1565	Spectrum and Energy Harvesting Protocols for Wireless Sensor Nodes. , 2018, , 271-296.		0
1566	Wireless Powered Sensor Networks. , 2018, , 241-270.		0
1567	Multi-Objective Resource Allocation Optimization for SWIPT in Small-Cell Networks. , 2018, , 65-86.		1
1568	Full-Duplex Wireless-Powered Communications. , 2018, , 29-63.		0
1569	Energy Harvesting Sources, Models, and Circuits. Analog Circuits and Signal Processing Series, 2018, , 7-35.	0.3	1
1571	Relay Selection Scheme for Energy Harvesting Cooperative Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 13-22.	0.2	0
1572	Efficient Beamforming Design for Cellular Networks with Energy-Constrained Devices. , 2018, , 1-10.		0
1573	Optimal Power Splitting of Cognitive Radio Networks with SWIPT-Enabled Relay. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 206-215.	0.2	0
1574	Outage-Optimal Energy Harvesting Schemes in Relay-Assisted Cognitive Radio Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 539-543.	0.2	0
1575	Quality of Service in Cognitive Radio Network: Issues and Challenges. Oriental Journal of Computer Science and Technology, 2018, 11, 34-39.	0.6	0
1576	Leveraging RF Power for Intelligent Tag Networks. , 2018, , .		6
1577	RF Energy Harvesting with Multiple Sources in Wireless Mesh Network. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 10, 606.	0.7	1

#	ARTICLE	IF.	CITATIONS
1578	RF Energy Harvesting and Storage System of Rectenna: A Review. Indian Journal of Science and Technology, 2018, 11, 1-5.	0.5	1
1580	Enhancing Physical Layer Security in Wireless Powered Communication Networks. , 2019, , 25-70.		1
1581	Introduction to Wireless Powered Communication Network. , 2019, , 1-23.		1
1582	Extending Wireless Powered Communication Networks for Future Internet of Things. , 2019, , 71-98.		0
1583	A New Method for Battery Lifetime Estimation Using Experimental Testbed for Zigbee Wireless Technology. International Journal on Advanced Science, Engineering and Information Technology, 2018, 8, 2654-2662.	0.2	2
1584	Implementation of a wireless charging system for mobile devices. Global Journal of Pure and Applied Sciences, 2018, 24, 229-234.	0.1	0
1585	Next-Generation Software-Defined Wireless Charging System. Studies in Systems, Decision and Control, 2019, , 505-541.	0.8	0
1586	Outage Performance of the Downlink NOMA Relay Networks with RF Energy Harvesting and Buffer AidedARelay. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 164-177.	0.2	2
1587	Beacon in the Air: Optimizing Data Delivery for Wireless Energy Powered UAVs. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 173-185.	0.2	0
1588	Half-Duplex Two-Way AF Relaying Network with Energy Harvesting. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 687-695.	0.2	0
1589	SECRECY SUSTAINABLE TRANSMISSION DESIGN IN ENERGY HARVESTING ENABLE RELAY NETWORKS. Progress in Electromagnetics Research M, 2019, 78, 11-18.	0.5	0
1591	Design of Quad Band Microstrip Patch Antenna for Electromagnetic Energy Harvesting Applications. Xinan Jiaotong Daxue Xuebao/Journal of Southwest Jiaotong University, 2019, 54, .	0.1	2
1592	Backscatter-Aided Hybrid Data Offloading for Mobile Edge Computing via Deep Reinforcement Learning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 525-537.	0.2	7
1593	Research on Energy Efficiency in Wireless Powered Communication Network with User Cooperative Relay. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 326-338.	0.2	0
1594	TRANSPARENT ENERGY HARVESTING ANTENNA FOR VEHICLE WINDSHIELD APPLICATION. Jurnal Ilmiah SINERGI, 2019, 23, 27.	0.2	0
1595	Review Paper on RF based Energy Harvesting System. Communications on Applied Electronics, 2019, 7, 1-7.	0.4	1
1596	Evaluation of Energy-Efficiency Problem in Orthogonal Frequency Division Multiple Access Cellular Networks. Celal Bayar Universitesi Fen Bilimleri Dergisi, 0, , 9-15.	0.1	1
1597	Dynamic Hybrid Timing Switching and Power Splitting SWIPT for Multi-hop AF Relaying Systems. Advances in Intelligent Systems and Computing, 2020, , 207-215.	0.5	0

#	Article	IF	CITATIONS
1598	Conclusion and Perspective. , 2020, , 123-127.		0
1599	Robust Beamforming and Power Splitting for Secure CR Network with Practical Energy Harvesting. IEICE Transactions on Communications, 2019, E102.B, 1547-1553.	0.4	0
1602	Energy Harvesting Technologies in Wireless Sensor Networks. , 2020, , 414-419.		0
1603	Full Duplex and Wireless-Powered Communications. , 2020, , 219-248.		2
1604	Identification of mobile vehicle through multilayer intercommunication. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 17, 1390.	0.7	0
1606	The Performance of Relay Communication Based on Energy Harvesting. , 2020, , .		0
1607	Outage Probability Analysis of Wireless-powered Full-duplex Cognitive Non-Orthogonal Multiple Access Relaying Systems. , 2020, , .		1
1608	JBRC: Jointly Balanced Routing and Charging Scheme for RF Energy Harvesting Wireless Sensor Networks. , 2020, , .		Ο
1609	Wireless-Powered Filter-and-Forward Relaying in Frequency-Selective Channels. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 1095-1102.	0.2	0
1610	Power efficient mobile small cell placement for network-coded cooperation in UDNs. Computer Networks, 2021, , 108559.	3.2	0
1611	Spectrum sensing in cognitive radio: A deep learning based model. Transactions on Emerging Telecommunications Technologies, 2022, 33, e4388.	2.6	27
1612	Evolution of SWIPT for the IoT World: Near- and Far-Field Solutions for Simultaneous Wireless Information and Power Transfer. IEEE Microwave Magazine, 2021, 22, 48-59.	0.7	30
1613	Data Aggregation Scheduling in Battery-Free Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2022, 21, 1972-1984.	3.9	5
1614	Stochastic Targets Monitoring in Wireless Powered Sensor Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 15908-15919.	3.9	0
1615	Supporting legacy and RFâ€energy harvesting devices in multiâ€cells OFDMA networks. IET Communications, 2020, 14, 3967-3976.	1.5	0
1616	Review of Energy Harvesting in LoRa based Wireless Sensor Network. , 2020, , .		5
1617	Maintaining Real-Time Data Freshness in Wireless Powered Communication Networks. , 2020, , .		5
1618	On outage analysis of nonlinear radio frequency energy harvesting based cooperative communication in cognitive radio network. Transactions on Emerging Telecommunications Technologies, 2021, 32,	2.6	3

#	Article	IF	CITATIONS
1619	Experimental Investigation of a Novel Multi-Patch Fractal Antenna for Radio Frequency Energy Harvesting. , 2020, , .		1
1620	Asymptotic Analysis and Power Control Optimization for Wirelessly Powered Cell-free Lot. , 2020, , .		0
1621	Compact High-Efficient CPS 2.45 GHz Multistage RF-DC Rectifier for Wireless Energy Harvesting. , 2020, , .		2
1622	Energy Management Strategy Based on Battery Capacity Degradation in EH-CRSN (Workshop). Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 317-327.	0.2	0
1623	An Information and Power Simultaneous Transfer Strategy in UAV and Wireless Rechargeable Sensor Networks. Lecture Notes in Computer Science, 2020, , 66-78.	1.0	0
1624	Basic Concepts of Internet of Things and Game Theory. , 2020, , 61-69.		0
1625	Energy Harvesting Technologies and Market Opportunities. , 2020, , 1-18.		0
1626	Performance Analysis of Relay Selection on Cooperative Uplink NOMA Network with Wireless Power Transfer. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 32-44.	0.2	2
1627	Optimization of Signals Processing in Nodes of Sensor Network with Energy Harvesting and Expenditure for Admission and Transmission. Lecture Notes in Computer Science, 2020, , 406-421.	1.0	0
1628	Simultaneous Energy Harvesting and Gait Recognition Using Piezoelectric Energy Harvester. IEEE Transactions on Mobile Computing, 2022, 21, 2198-2209.	3.9	12
1629	The energy-efficient MDA-SMAC protocol for wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	1.5	8
1630	Efficient Beamforming Design for Cellular Networks with Energy-Constrained Devices. , 2020, , 381-390.		Ο
1631	Performance Analysis of a Full-Duplex MIMO Decode-and-Forward Relay System With Self-Energy Recycling. IEEE Access, 2020, 8, 226248-226266.	2.6	12
1632	Energy provision minimisation in largeâ€scale wireless powered communication networks with throughput demand. IET Communications, 2020, 14, 458-465.	1.5	0
1633	Meta-Heuristic Search Based Model for Task Offloading and Time Allocation in Mobile Edge Computing. , 2020, , .		0
1634	Age-aware Communication Strategy in Federated Learning with Energy Harvesting Devices. , 2021, , .		3
1635	A cascaded two-port network model for the analysis of harmonic chain-based energy harvesters. , 2021, , .		1
1636	Intelligent Task Offloading and Energy Allocation in the UAV-Aided Mobile Edge-Cloud Continuum. IEEE Network, 2021, 35, 42-49.	4.9	17

#	Article	IF	CITATIONS
1637	Drive Towards 6G. , 2022, , 3-35.		2
1638	Cluster Design and Optimization of SWIPT-Based MEC Networks with UAV Assistance. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	0.8	0
1639	Communication network node fault recovery strategy under network function virtualization. , 2020,		0
1640	Energy-Efficient Secure Transmission for Cognitive Radio Networks with SWIPT. IEICE Transactions on Communications, 2020, E103.B, 1002-1010.	0.4	1
1642	TEMSEP: Threshold-Oriented and Energy-Harvesting Enabled Multilevel SEP Protocol for Improving Energy-Efficiency of Heterogeneous WSNs. IEEE Access, 2021, 9, 154975-155002.	2.6	10
1643	New generalized zero forcing beamforming for serving more users in energy-harvesting enabled networks. Physical Communication, 2022, 50, 101500.	1.2	1
1644	Residual Energy Estimation-Based MAC Protocol for Wireless Powered Sensor Networks. Sensors, 2021, 21, 7617.	2.1	2
1646	Low-Complexity Transmit Power Control for Secure Communications in Wireless-Powered Cognitive Radio Networks. Sensors, 2021, 21, 7837.	2.1	1
1647	Energy-Efficient Secure Communications for Wireless-Powered Cognitive Radio Networks. Sensors, 2021, 21, 8040.	2.1	0
1648	An Optically Transparent Metantenna for RF Wireless Energy Harvesting. IEEE Transactions on Antennas and Propagation, 2022, 70, 2550-2560.	3.1	9
1649	Transceiver Optimization for Wireless Powered Time-Division Duplex MU-MIMO Systems: Non-Robust and Robust Designs. IEEE Transactions on Wireless Communications, 2022, 21, 4594-4607.	6.1	53
1650	Deep Reinforcement Learning-Based Multidimensional Resource Management for Energy Harvesting Cognitive NOMA Communications. IEEE Transactions on Communications, 2022, 70, 3110-3125.	4.9	17
1651	Cost-Efficient Beam Management and Resource Allocation in Millimeter Wave Backhaul HetNets With Hybrid Energy Supply. IEEE Transactions on Wireless Communications, 2022, 21, 3291-3306.	6.1	7
1652	SWIPT-Enabled Multiple Access Channel: Effects of Decoding Cost and Non-Linear EH Model. IEEE Transactions on Communications, 2022, 70, 306-316.	4.9	8
1653	AI Models for Green Communications Towards 6G. IEEE Communications Surveys and Tutorials, 2022, 24, 210-247.	24.8	104
1654	Combine Data Collecting and Task Computing: Progressive Computing in Internet of Things. IEEE Internet of Things Journal, 2022, 9, 10936-10947.	5.5	0
1655	Relay-Aided Multi-User OFDM Relying on Joint Wireless Power Transfer and Self-Interference Recycling. IEEE Transactions on Communications, 2022, 70, 291-305.	4.9	4
1656	User-Centric Cell-Free Massive MIMO Networks: A Survey of Opportunities, Challenges and Solutions. IEEE Communications Surveys and Tutorials, 2022, 24, 611-652.	24.8	115

#	Article	IF	CITATIONS
1657	Novel Tasks Assignment Methods for Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2022, 9, 10563-10575.	5.5	5
1658	Robust Design for Intelligent Reflecting Surface-Assisted Secrecy SWIPT Network. IEEE Transactions on Wireless Communications, 2022, 21, 4133-4149.	6.1	34
1659	Frequency-Domain SWIPT and Modulation Classification: Design and Experimental Validation. IEEE Open Journal of the Communications Society, 2021, 2, 2581-2596.	4.4	1
1660	On the Coverage of UAV-Assisted SWIPT Networks With Nonlinear EH Model. IEEE Transactions on Wireless Communications, 2022, 21, 4464-4481.	6.1	11
1661	Joint Dynamic Passive Beamforming and Resource Allocation for IRS-Aided Full-Duplex WPCN. IEEE Transactions on Wireless Communications, 2022, 21, 4829-4843.	6.1	36
1662	Al-Based Secure NOMA and Cognitive Radio-Enabled Green Communications: Channel State Information and Battery Value Uncertainties. IEEE Transactions on Green Communications and Networking, 2022, 6, 1037-1054.	3.5	4
1663	Joint Beamforming and Power Allocation for Multiuser MISO Broadcast Channel SWIPT Employing OFDM. IEEE Access, 2021, 9, 165154-165172.	2.6	2
1664	Deep-Learning-Assisted Wireless-Powered Secure Communications With Imperfect Channel State Information. IEEE Internet of Things Journal, 2022, 9, 11464-11476.	5.5	3
1665	Coverage Performance of UAV-Assisted SWIPT Networks With Directional Antennas. IEEE Internet of Things Journal, 2022, 9, 10600-10609.	5.5	4
1666	Data Collection in Multihop Mobile Sink-Aided Backscatter IoT Networks. IEEE Internet of Things Journal, 2022, 9, 12001-12013.	5.5	2
1667	On the Performance of SLIPT-Enabled DF Relay-Aided Hybrid OW/RF Network. IEEE Systems Journal, 2022, 16, 5973-5984.	2.9	11
1668	Robust Security Beamforming for SWIPT-Assisted Relay System with Channel Uncertainty. Sensors, 2022, 22, 370.	2.1	2
1669	Energy-efficient opportunistic multi-carrier NOMA-based resource allocation for beyond 5G (B5G) networks. Simulation Modelling Practice and Theory, 2022, 116, 102452.	2.2	16
1670	Throughput maximization of an IRS-assisted wireless powered network with interference: A deep unsupervised learning approach. Physical Communication, 2022, 51, 101558.	1.2	5
1671	Obstacle-Aware Fuzzy-Based Localization of Wireless Chargers in Wireless Sensor Networks. Canadian Journal of Electrical and Computer Engineering, 2020, 43, 17-24.	1.5	2
1672	Optimization Deployed Strategy of Wireless Power Beacon Based on 5G Millimeter Wave Small Cell. , 2020, , .		0
1673	Performance Analysis for SWIPT Based Cooperative Non-orthogonal Multiple Access With Two Phase Superposition Transmission. , 2020, , .		0
1674	7.6 ÂμW Ambient Energy Harvesting Rectenna from LTE Mobile phone Signal for IoT Applications. , 2020, ,		2

#	Article	IF	CITATIONS
1675	Secrecy Rate and Energy Harvesting Trade-off in Cognitive Wireless Energy Transfer Systems. , 2020, , .		0
1676	Wireless Energy Beamforming Using Time-domain Filters in Frequency Selective Channels. , 2020, , .		Ο
1677	Performance Analysis of UAV Relaying Using Energy Harvesting. , 2020, , .		0
1678	Modified Printed Bow-Tie Antenna for RF Energy Harvesting Applications. , 2020, , .		4
1679	Secured Scheme for RF Energy Harvesting Mobile Edge Computing Networks based on NOMA and Access Point Selection. , 2020, , .		7
1680	An Efficient RF-DC Rectifier Design for RF Energy Harvesting Systems. , 2020, , .		5
1681	180° Hybrid Coupler for a Full-wave Power Rectifier Detector for Wireless Power Transfer. , 2020, , .		1
1682	Energy-Neutral Devices: Can Hybrid RF-Acoustic Signals Point Them Out?. , 2020, , .		2
1683	Cooperative User Selection with Non-Linear Energy Harvesting in IoT Environment. , 2021, , .		3
1684	Impairment Impact on the Wireless Communication System. , 2021, , .		Ο
1685	Effect of the Modification on Karthaus-Fischer Voltage Multipliers for Single Band GSM RF Energy Harvesting. , 2021, , .		0
1686	Impact of Total Harmonic Distortion in SWIPT Enabled Wireless Communication Networks. , 2021, , .		4
1687	Pricing Scheme for UAV-Enabled Charging of Sensor Network. , 2021, , .		3
1688	Multi-Tag Selection in Cognitive Ambient Backscatter Communications for Next-Generation IoT Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-12.	0.8	1
1689	GreenEdge: Joint Green Energy Scheduling and Dynamic Task Offloading in Multi-Tier Edge Computing Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 4322-4335.	3.9	17
1690	Neighbor-Aware Non-Orthogonal Multiple Access Scheme for Energy Harvesting Internet of Things. Sensors, 2022, 22, 448.	2.1	2
1691	Secure Wirelessly Powered Networks at the Physical Layer: Challenges, Countermeasures, and Road Ahead. Proceedings of the IEEE, 2022, 110, 193-209.	16.4	11
1692	Metamaterials and Metasurfaces for Wireless Power Transfer and Energy Harvesting. Proceedings of the IEEE, 2022, 110, 31-55.	16.4	43

#	Article	IF	CITATIONS
1693	Adaptive Data Collection Using UAV With Wireless Power Transfer for Wireless Rechargeable Sensor Networks. IEEE Access, 2022, 10, 9729-9743.	2.6	9
1694	Wireless power transfer selfâ€adaptive to incident power density. International Journal of RF and Microwave Computer-Aided Engineering, 0, , .	0.8	0
1695	Secure Energy Efficiency Maximization for Untrusted Wireless-Powered Full-Duplex Relay Networks Under Nonlinear Energy Harvesting. IEEE Systems Journal, 2022, , 1-11.	2.9	2
1696	Foundations of Wireless Information and Power Transfer: Theory, Prototypes, and Experiments. Proceedings of the IEEE, 2022, 110, 8-30.	16.4	36
1697	Learning Algorithms for Complete Targets Coverage in RF-Energy Harvesting Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 3229-3240.	3.9	0
1698	Maximizing Virtual Network Embedding Requests in RF-Charging IoT Networks. IEEE Communications Letters, 2022, 26, 863-867.	2.5	3
1700	Hybrid Power Divider and Combiner for Passive RFID Tag Wireless Energy Harvesting. IEEE Access, 2022, 10, 502-515.	2.6	10
1701	Target Localization in Wireless Sensor Networks Based on Received Signal Strength and Convex Relaxation. Sensors, 2022, 22, 733.	2.1	4
1702	Detection of Some Water Elements Based on IoT: Review Study. EAI/Springer Innovations in Communication and Computing, 2022, , 1-17.	0.9	3
1703	Orchestrating Virtual Network Functions in Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2022, 9, 15874-15885.	5.5	1
1704	A Review on Antenna Technologies for Ambient RF Energy Harvesting and Wireless Power Transfer: Designs, Challenges and Applications. IEEE Access, 2022, 10, 17231-17267.	2.6	66
1705	Throughput Optimization of Backscatter-Assisted Wireless Relay Networks in Obstacle Environment. Wireless Communications and Mobile Computing, 2022, 2022, 1-13.	0.8	0
1706	Managing the harvested energy in wireless sensor networks: A priority Geo/Geo/1/k approach with threshold. Energy Reports, 2022, 8, 2448-2461.	2.5	3
1707	Simultaneous Charger Placement andÂPower Scheduling forÂOn-Demand Provisioning ofÂRF Wireless Charging Service. Lecture Notes in Computer Science, 2022, , 632-646.	1.0	1
1708	Wide Power Dynamic Range CMOS RF-DC Rectifier for RF Energy Harvesting System: A Review. IEEE Access, 2022, 10, 23948-23963.	2.6	28
1709	Simultaneous Wireless Information and Power Transfer Assisted Federated Learning via Nonorthogonal Multiple Access. IEEE Transactions on Green Communications and Networking, 2022, 6, 1846-1861.	3.5	8
1710	Optimizing Information Freshness in RF-Powered Multi-Hop Wireless Networks. IEEE Transactions on Wireless Communications, 2022, 21, 7135-7147.	6.1	4
1711	Power Minimization for Data Collection in UAV-Assisted IoT Wireless Sensor Networks. , 2022, , .		0

#	Article	IF	CITATIONS
1712	Collaborative Energy Beamforming for Wireless Powered Fog Computing Networks. IEEE Transactions on Wireless Communications, 2022, 21, 7942-7956.	6.1	1
1713	Optimal Transmission Strategy and Time Allocation for RIS-Enhanced Partially WPSNs. IEEE Transactions on Wireless Communications, 2022, 21, 7207-7221.	6.1	5
1714	Weighted Sum Rate Maximization for Two-Way Wireless Powered Interference Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 5627-5632.	3.9	1
1715	Efficient Approach for Resource Allocation in WPCN Using Hybrid Optimization. Computers, Materials and Continua, 2022, 72, 1275-1291.	1.5	0
1716	Low-Complexity PSO-Based Resource Allocation Scheme for Cooperative Non-Linear SWIPT-Enabled NOMA. IEEE Access, 2022, 10, 34207-34220.	2.6	18
1717	Analytical Evaluation of Power-Amplifier-Based Charging Methodology and Energy Efficiency Optimization Framework for Aerial Base Stations. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 4451-4472.	2.6	1
1718	Charging RF-Energy Harvesting Devices in IoT Networks With Imperfect CSI. IEEE Internet of Things Journal, 2022, 9, 17808-17820.	5.5	3
1719	Power-Efficient Passive Beamforming and Resource Allocation for IRS-Aided WPCNs. IEEE Transactions on Communications, 2022, 70, 3250-3265.	4.9	17
1720	Suppression of Radiated Emissions from Inductive-Resonant Wireless Power Transfer Systems by Using Spread-Spectrum Technique. Electronics (Switzerland), 2022, 11, 730.	1.8	2
1721	Design of Relay Switching to Combat an Eavesdropper in IoT-NOMA Wireless Networks. Future Internet, 2022, 14, 71.	2.4	2
1722	Interactive communication with clustering collaboration for wireless powered communication networks. International Journal of Distributed Sensor Networks, 2022, 18, 155014772110699.	1.3	6
1723	Frequency Up-Conversion for Vibration Energy Harvesting: A Review. Symmetry, 2022, 14, 631.	1.1	23
1724	Wireless powered backscatter-aided cooperative communication scheme for IoT. Wireless Networks, 2022, 28, 1771-1784.	2.0	0
1726	Enhancing the performance of downlink NOMA relaying networks by RF energy harvesting and data buffering at relay. Wireless Networks, 2022, 28, 1857-1877.	2.0	3
1728	Resource allocation of fog radio access network based on deep reinforcement learning. Engineering Reports, 2022, 4, .	0.9	8
1729	An energyâ€efficient technique for mobileâ€wirelessâ€sensorâ€networkâ€based IoT. ETRI Journal, 2022, 44, 389-399.	1.2	3
1730	Harvesting Systems for RF Energy: Trends, Challenges, Techniques, and Tradeoffs. Electronics (Switzerland), 2022, 11, 959.	1.8	10
1731	Bruce Lee-Inspired Fluid Antenna System: Six Research Topics and the Potentials for 6G. Frontiers in Communications and Networks, 2022, 3, .	1.9	23

#	Article	IF	CITATIONS
1732	Near-Field Wireless Power Transfer for 6G Internet of Everything Mobile Networks: Opportunities and Challenges. IEEE Communications Magazine, 2022, 60, 12-18.	4.9	31
1733	An Impedance Matching Solution to Increase the Harvested Power and Efficiency of Nonlinear Piezoelectric Energy Harvesters. Energies, 2022, 15, 2764.	1.6	20
1734	Development of Algorithms for an IoT-Based Smart Agriculture Monitoring System. Wireless Communications and Mobile Computing, 2022, 2022, 1-16.	0.8	39
1735	Low Phase-Noise, 2.4 and 5.8 GHz Dual-Band Frequency Synthesizer with Class-C VCO and Bias-Controlled Charge Pump for RF Wireless Charging System in 180 nm CMOS Process. Electronics (Switzerland), 2022, 11, 1118.	1.8	3
1736	A Radio Frequency Energy Harvesting-Based Multihop Clustering Routing Protocol for Cognitive Radio Sensor Networks. IEEE Sensors Journal, 2022, 22, 7142-7156.	2.4	13
1737	A survey and experimental analysis of checkpointing techniques for energy harvesting devices. Journal of Systems Architecture, 2022, 126, 102464.	2.5	9
1738	A Multi-band Solution for Interacting with Energy-Neutral Devices. , 2021, , .		2
1739	Outage Probability Analysis of SWIPT Systems with Ambient Backscatter. , 2021, , .		1
1740	Comparison of different Machine Learning techniques for PCE estimation of MMWave Energy Harvesting Rectifier devices. , 2021, , .		0
1741	RF Energy Harvesting: Design of Printed Hexagon Antenna for ISM Band 2.4 GHz. , 2021, , .		2
1742	Statistical Modeling of Energy Harvesting in Hybrid PLC-WLC Channels. Sustainability, 2022, 14, 442.	1.6	2
1743	A Novel Interference-aided RF Energy Harvesting scheme for Cooperative NOMA Network. , 2021, , .		0
1744	Packet Scheduling for Wireless Powered Communication Systems in the Finite Blocklength Regime: A POMDP Approach. , 2021, , .		0
1745	Throughput Analysis of SWIPT-Enabled Multiuser IoT Networks With Hardware Imperfections Over Nakagami-m Fading Channels. , 2021, , .		0
1746	A CMOS RF-DC Converter in the GSM Band for RF Energy Harvesting Applications. , 2021, , .		0
1747	Unified Wireless Power and Information Transfer Using a Diplexed Rectifier. , 2021, , .		2
1748	Deep Neural Network based Minimum Length Scheduling in Wireless Powered Communication Networks. , 2021, , .		1
1749	Broadband Compact Substrate-Independent Textile Wearable Antenna for Simultaneous Near- and Far-Field Wireless Power Transmission. IEEE Open Journal of Antennas and Propagation, 2022, 3, 398-411.	2.5	13

#	Article	IF	CITATIONS
1750	Wireless Power Transfer in Wirelessly Powered Sensor Networks: A Review of Recent Progress. Sensors, 2022, 22, 2952.	2.1	23
1751	Energyâ€efficient alternating current computingâ€enabled receiver design for <i>K</i> â€user interference channel simultaneous wireless information and power transfer networks. International Journal of Communication Systems, 0, , .	1.6	0
1752	A Comprehensive Survey on RF Energy Harvesting: Applications and Performance Determinants. Sensors, 2022, 22, 2990.	2.1	25
1753	Achievable Rate Maximization for Multi-Relay AF Cooperative SWIPT Systems with a Nonlinear EH Model. Sensors, 2022, 22, 3041.	2.1	2
1756	A Design of Peak to Average Power Ratio Based SWIPT System in 180 nm CMOS Process for IoT Sensor Applications. IEEE Access, 2022, , 1-1.	2.6	2
1757	Analysis and Design Methodology of RF Energy Harvesting Rectifier Circuit for Ultra-Low Power Applications. IEEE Open Journal of Circuits and Systems, 2022, 3, 82-96.	1.4	11
1758	MIMO Evolution Beyond 5G Through Reconfigurable Intelligent Surfaces and Fluid Antenna Systems. Proceedings of the IEEE, 2022, 110, 1244-1265.	16.4	23
1759	Notice of Violation of IEEE Publication Principles: Secured Wireless Energy Transfer for the Internet of Everything in Ambient Intelligent Environments. IEEE Internet of Things Magazine, 2022, 5, 62-66.	2.0	4
1760	Study on IoT networks with the combined use of wireless power transmission and solar energy harvesting. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, 1.	0.8	8
1761	DMADRL: A Distributed Multi-agent Deep Reinforcement Learning Algorithm for Cognitive Offloading in Dynamic MEC Networks. Neural Processing Letters, 2022, 54, 4341-4373.	2.0	3
1762	Secure Communication for RF Energy Harvesting NOMA Relaying Networks with Relay-User Selection Scheme and Optimization. Mobile Networks and Applications, 2022, 27, 1719-1733.	2.2	1
1763	Performance analysis of wireless powered sensor network with opportunistic scheduling over generalized <mml:math <br="" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">id="d1e1320" altimg="si83.svg"&gt;<mml:mive: 1998="" <br="" display="inline" math="" mathml"="" www.w3.org="">id="d1e1320" altimg="si83.svg"&gt;<mml:mitup: 1998="" <br="" display="inline" math="" mathml"="" www.w3.org="">id="d1e1320" altimg="si83.svg"&gt;<mml:mitup: 1998="" <br="" display="inline" math="" mathml"="" www.w3.org="">id="d1e1320" altimg="si83.svg"&gt;<mml:micup: 1998="" <br="" display="inline" math="" mathml"="" www.w3.org="">inline:"si8'.svg"&gt;<mml:micup: 1998="" <br="" display="inline" math="" mathml"="" www.w3.org="">inline:"si8'.svg"&gt;inline:"si8'.svg"&gt;inline:"si8'.svg"</mml:micup:></mml:micup:></mml:micup:></mml:micup:></mml:micup:></mml:micup:></mml:micup:></mml:micup:></mml:micup:></mml:micup:></mml:micup:></mml:mitup:></mml:mitup:></mml:mive:></mml:math>	1.2	2
1764	channels, Physical Communication, 2022, 53, 101727. Energizing Low Power Devices by Harvesting Energy from Ubiquitous Electromagnetic Wave Resources. International Journal of Advanced Research in Science, Communication and Technology, 0, , 114-118.	0.0	0
1765	Distributed Multi-Antenna Frequency-Selective Energy Beamforming with Joint Total and Individual Power Constraints. IEEE Transactions on Green Communications and Networking, 2022, , 1-1.	3.5	0
1766	Throughput Maximization for Wireless Powered Buffer-Aided Successive Relaying Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-22.	0.8	0
1767	Energy harvest cognitive radio networks (EH-CRNs): A review paper. AIP Conference Proceedings, 2022,	0.3	0
1768	Energy Efficient Resource Allocation for eHealth Monitoring Wireless Body Area Networks With Backscatter Communication. IEEE Sensors Journal, 2022, 22, 16638-16651.	2.4	2
1769	Development of Ultra-Wideband Textile-Based Metamaterial Absorber for mm-wave Band Applications. , 2022, , .		0

#	Article	IF	CITATIONS
1770	Opportunistic Communication with Latency Guarantees for Intermittently-Powered Devices. , 2022, , .		2
1771	Printed Non-Metallic Textile-Based Carbon Antenna for Low-Cost Green Wearable Applications. , 2022, ,		4
1772	Computation Bits Maximization in UAV-Assisted MEC Networks With Fairness Constraint. IEEE Internet of Things Journal, 2022, 9, 20997-21009.	5.5	14
1773	Multiband Dual-Polarized Hybrid Antenna With Complementary Beam for Simultaneous RF Energy Harvesting and WPT. IEEE Transactions on Antennas and Propagation, 2022, 70, 8485-8495.	3.1	5
1774	Learning Algorithms for Data Collection in RF-Charging IIoT Networks. IEEE Transactions on Industrial Informatics, 2022, , 1-1.	7.2	1
1775	Radio Frequency Energy Harvesting Technologies: A Comprehensive Review on Designing, Methodologies, and Potential Applications. Sensors, 2022, 22, 4144.	2.1	29
1776	Deep Q-learning based optimal resource allocation method for energy harvested cognitive radio networks. Physical Communication, 2022, 53, 101766.	1.2	5
1777	A CMOS RF energy harvester with high PCE over a wide range of input power. Analog Integrated Circuits and Signal Processing, 2022, 112, 317-323.	0.9	1
1779	Design Transparent Microstrip Antenna for RF Energy Harvesting at 2.4 GHz. , 2021, , .		1
1780	Space Simultaneous Information and Power Transfer: An Enhanced Technology for Miniaturized Satellite Systems. IEEE Wireless Communications, 2023, 30, 122-129.	6.6	3
1781	Outage Probability of Aerial Base Station NOMA MIMO Wireless Communication With RF Energy Harvesting. IEEE Internet of Things Journal, 2022, 9, 22874-22886.	5.5	16
1782	Age-Energy Efficiency in WPCNs: A Deep Reinforcement Learning Approach. , 2022, , .		1
1783	Employing an Energy Harvesting Strategy to Enhance the Performance of a Wireless Emergency Network. Sensors, 2022, 22, 4385.	2.1	4
1784	Deep reinforcement learning-based joint task and energy offloading in UAV-aided 6G intelligent edge networks. Computer Communications, 2022, 192, 234-244.	3.1	18
1785	Deep Learning-Based Transmit Power Control for Wireless-Powered Secure Communications With Heterogeneous Channel Uncertainty. IEEE Transactions on Vehicular Technology, 2022, 71, 11150-11159.	3.9	3
1786	Throughput Guarantees for Multi-Cell Wireless Powered Communication Networks With Non-Orthogonal Multiple Access. IEEE Transactions on Vehicular Technology, 2022, 71, 12104-12116.	3.9	31
1787	A Survey on Mobile Charging Techniques in Wireless Rechargeable Sensor Networks. IEEE Communications Surveys and Tutorials, 2022, 24, 1750-1779.	24.8	28
1788	Self-energising of Full-Duplex UAV-Assisted Wireless Networks. Unmanned System Technologies, 2023, , 39-60.	0.9	0

#	ARTICLE Relay Selection in SWIPT-enabled Cooperative Networks 2022	IF	CITATIONS
1790	SWIPT-Enabled Cellular-Connected UAV: Energy Harvesting and Data Transmission. , 2022, , .		0
1791	Self-powered wearable sensors design considerations. Journal of Micromechanics and Microengineering, 2022, 32, 083002.	1.5	2
1792	Secrecy performance analysis of amplify-and-forward relay cooperative networks with simultaneous wireless information and power transfer. Computer Communications, 2022, 193, 365-377.	3.1	3
1793	Future outlook on 6G technology for renewable energy sources (RES). Renewable and Sustainable Energy Reviews, 2022, 167, 112722.	8.2	24
1794	Energy Saving Strategy of UAV in MEC Based on Deep Reinforcement Learning. Future Internet, 2022, 14, 226.	2.4	2
1795	Wormhole attack detection techniques in ad-hoc network: A systematic review. Open Computer Science, 2022, 12, 260-288.	1.3	4
1796	Throughput Maximization for Wireless-Powered IoT Networks with Hybrid Non-orthognal Multiple Access. , 2022, , .		0
1797	RF Information Harvesting for Medium Access in Event-driven Batteryless Sensing. , 2022, , .		0
1798	A Self-Sustainable Wireless Powered IRS-Based Backscatter Communication System. , 2022, , .		2
1799	Deep Reinforcement Learning-Based Computation Offloading and Optimal Resource Allocation in Industrial Internet of Things with NOMA. , 2022, , .		1
1800	Resource Allocation Strategy for UAV-assisted Non-linear Energy Harvesting MEC System. , 2022, , .		4
1801	Age of Information and Energy Harvesting Tradeoff for Joint Packet Coding in Downlink IoT Networks. , 2022, , .		2
1802	Hybrid PFM-PWM Digital Controller for Miniaturized High-Frequency LLC Converters Integrated in Advanced IoT Devices. , 2022, , .		3
1803	Multi-Channel Data Aggregation Scheduling Based on the Chaotic Firework Algorithm for the Battery-Free Wireless Sensor Network. Symmetry, 2022, 14, 1571.	1.1	4
1804	Wireless Power Transfer: Systems, Circuits, Standards, and Use Cases. Sensors, 2022, 22, 5573.	2.1	34
1805	Performance Analysis of Multistage Cross-Coupled Differential-Drive Rectifiers using Simulations on 65nm CMOS Process. , 2022, , .		0
1806	Self-Sustainable Biomedical Devices Powered by RF Energy: A Review. Sensors, 2022, 22, 6371.	2.1	9

#	Article	IF	CITATIONS
1807	Timeâ€switched energy harvesting amplifyâ€forward relay with direct link: Performance analysis. International Journal of Communication Systems, 0, , .	1.6	0
1808	Trajectory Design for Multi-UAV-Aided Wireless Power Transfer toward Future Wireless Systems. Sensors, 2022, 22, 6859.	2.1	2
1809	An Energy-Efficient Internet of Things Relaying System for Delay-Constrained Applications. IEEE Access, 2022, 10, 82259-82271.	2.6	1
1810	Intelligent Reflecting Surface-Aided Wireless Powered Hybrid Backscatter-Active Communication Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 1383-1388.	3.9	1
1811	A Survey on Multiuser SWIPT Communications for 5G+. IEEE Access, 2022, 10, 109814-109849.	2.6	9
1812	Transmit Power Adaptation for D2D Communications Underlaying SWIPT-Based IoT Cellular Networks. IEEE Internet of Things Journal, 2023, 10, 987-1000.	5.5	5
1813	Rectifier Design for Highly Loaded Inductive Wireless Power Transfer Systems for Biomedical Applications. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 574-579.	2.3	2
1814	Energy Harvesting in the UNB-PLC Spectrum: Hidden Opportunities for IoT Devices. IEEE Internet of Things Journal, 2023, 10, 1236-1247.	5.5	2
1815	Self-Sustainable RIS Aided Wireless Power Transfer Scheme. IEEE Transactions on Vehicular Technology, 2023, 72, 881-892.	3.9	2
1816	Wireless Energy Networks - How Cooperation Extends toÂEnergy. Lecture Notes in Computer Science, 2022, , 96-102.	1.0	1
1817	User Scheduling and Trajectory Optimization for Energy-Efficient IRS-UAV Networks With SWIPT. IEEE Transactions on Vehicular Technology, 2023, 72, 1815-1830.	3.9	5
1818	Simultaneous Wireless Information and Power Transfer in mmWave Networks Under User-Centric Base Station Clustering. IEEE Transactions on Wireless Communications, 2023, 22, 1823-1840.	6.1	1
1819	Throughput Maximization in Wireless Communication Systems Powered by Hybrid Energy Harvesting. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 3981-3992.	1.9	1
1820	Capacity Analysis for Tunnel Diode Amplifier Assisted Ambient Backscatter Communications. IEEE Access, 2022, 10, 98562-98571.	2.6	0
1821	Vibration energy harvesters for sensing applications. , 2022, , 369-394.		0
1822	Power Minimization in Multi-Antenna Transmitter Aided Bidirectional Tag-to-Device Communications for IoT. IEEE Transactions on Vehicular Technology, 2022, 71, 13105-13119.	3.9	1
1823	Minimizing Age of Information in Multihop Energy-Harvesting Wireless Sensor Network. IEEE Internet of Things Journal, 2022, 9, 25736-25751.	5.5	2
1824	Transmission Optimization and Resource Allocation for Wireless Powered Dense Vehicle Area Network With Energy Recycling. IEEE Transactions on Vehicular Technology, 2022, 71, 12291-12303.	3.9	3

#	Article	IF	CITATIONS
1825	A Novel Blockchain Based Secured and QoS Aware IoT Vehicular Network in Edge Cloud Computing. IEEE Access, 2022, 10, 77707-77722.	2.6	12
1826	Joint Rate and Energy Coverage of User-Centric SWIPT-Enabled Millimeter Wave Networks. , 2022, , .		0
1827	WiFi Energy-Harvesting Antenna Inspired by the Resonant Magnetic Dipole Metamaterial. Sensors, 2022, 22, 6523.	2.1	6
1828	Standard MOS Diodes Composed by SOI UTBB Transistors. , 2022, , .		0
1829	Energy Efficiency in D2D Cooperative Communication System UAV-Assisted for Energy Harvesting Process at Source and Relay. , 2022, , .		2
1830	Simultaneous wireless information and power transfer in resonant beam charging. International Journal of Communication Systems, 2022, 35, .	1.6	0
1831	A fixed clustering protocol based on random relay strategy for EHWSN. Digital Communications and Networks, 2023, 9, 90-100.	2.7	10
1832	A novel relayâ€∎ided centralized cooperative spectrum sensing scheme using radio frequency energy harvesting. International Journal of Communication Systems, 2023, 36, .	1.6	2
1833	Superposition of rectangular power pulses and CP-OFDM signal for SWIPT. Eurasip Journal on Wireless Communications and Networking, 2022, 2022, .	1.5	0
1834	Review on Radio Resource Allocation Optimization in LTE/LTE-Advanced using Game Theory. , 2017, 9, .		2
1835	Ultra-Low-Power Diodes Composed by SOI UTBB Transistors. , 2022, , .		1
1836	A novel design of wireless-powered IRS-aided relay networks. , 2022, , .		0
1837	A New Compact Triple-Band Triangular Patch Antenna for RF Energy Harvesting Applications in IoT Devices. Sensors, 2022, 22, 8009.	2.1	1
1838	Energy efficient transceiver design for SWIPT systems with non-orthogonal multiple access and power splitting. AEU - International Journal of Electronics and Communications, 2023, 158, 154449.	1.7	1
1839	Design of a hexagonal slot rectenna for <scp>RF</scp> energy harvesting in <scp>Wiâ€Fi</scp> / <scp>WLAN</scp> applications. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	0.8	5
1840	Statistical Characterization of Wireless Power Transfer via Unmodulated Emission. Sensors, 2022, 22, 7828.	2.1	1
1841	Performance evaluation of cooperativeâ€nonorthogonal multiple accessâ€based improved hybrid simultaneous wireless information and power transfer protocol. Transactions on Emerging Telecommunications Technologies, 0, , .	2.6	2
1842	Radiofrequency Energy Harvesting Systems for Internet of Things Applications: A Comprehensive Overview of Design Issues. Sensors, 2022, 22, 8088.	2.1	12

#	Article	IF	CITATIONS
1843	Frequency domain analysis of a piezoelectric energy harvester with impedance matching network. Energy Harvesting and Systems, 2023, 10, 135-144.	1.7	0
1844	Energy Harvesting Methods for Transmission Lines: A Comprehensive Review. Applied Sciences (Switzerland), 2022, 12, 10699.	1.3	11
1845	Joint beamforming design and resource allocation for double-IRS-assisted RSMA SWIPT systems. Computer Communications, 2022, 196, 229-238.	3.1	2
1846	Performance Analysis of Wireless Power Transfer Enabled Dual Hop Relay System Under Generalised Fading Scenarios. IEEE Access, 2022, 10, 114364-114373.	2.6	8
1847	Latency-Aware Multi-antenna SWIPT System with Battery-Constrained Receivers. IEEE Transactions on Wireless Communications, 2022, , 1-1.	6.1	2
1848	Beamforming Design for Integrated Sensing and Wireless Power Transfer Systems. IEEE Communications Letters, 2023, 27, 600-604.	2.5	1
1849	Approaching K-Means for Multiantenna UAV Positioning in Combination With a Max-SIC-Min-Rate Framework to Enable Aerial IoT Networks. IEEE Access, 2022, 10, 115157-115178.	2.6	7
1850	Maximizing Sensing and Computation Rate in Ad Hoc Energy Harvesting IoT Networks. IEEE Internet of Things Journal, 2023, 10, 5434-5446.	5.5	2
1851	å§è§"æ¨¡èƒ½é‡æ"¶é›†ç‰©è"网基于信æ•å¹′龄的自é€,应接å¥. Scientia Sinica Informationis, 2022,	, .0.2	0
1852	Enhancement of the performance of wireless sensor networks using the multihop multiantenna power beacon path selection method in intelligent structures. PLoS ONE, 2022, 17, e0276940.	1.1	0
1853	Secrecy Rate Maximization of RIS-Assisted SWIPT Systems: A Two-Timescale Beamforming Design Approach. IEEE Transactions on Wireless Communications, 2023, 22, 4489-4504.	6.1	2
1854	Ultra-Low-Power Sub-1 V 29 ppm/°C Voltage Reference and Shared-Resistive Current Reference. IEEE Transactions on Circuits and Systems I: Regular Papers, 2023, 70, 1030-1042.	3.5	4
1855	Energy Harvesting Aware forÂDelay-Efficient Data Aggregation inÂBattery-Free IoT Sensors. Communications in Computer and Information Science, 2022, , 674-681.	0.4	0
1856	Utility-Based Cooperative Resource Sharing in Symbiotic-Radio-Aided Internet of Things Networks. IEEE Internet of Things Journal, 2023, 10, 19368-19384.	5.5	2
1857	Link Budget Analysis for Backscatter-Based Passive IoT. IEEE Access, 2022, 10, 128890-128922.	2.6	15
1858	Deep Learning on Energy Harvesting IoT Devices: Survey and Future Challenges. IEEE Access, 2022, 10, 124999-125014.	2.6	3
1859	Microwave-Enabled Wearables: Underpinning Technologies, Integration Platforms, and Next-Generation Roadmap. IEEE Journal of Microwaves, 2023, 3, 193-226.	4.9	16
1860	Throughput Maximization of Wireless-Powered Communication Network With Mobile Access Points. IEEE Transactions on Wireless Communications, 2023, 22, 4401-4415.	6.1	9

#	Article	IF	CITATIONS
1861	Deep Reinforcement Learning Enabled Energy-Efficient Resource Allocation in Energy Harvesting Aided V2X Communication. , 2022, , .		2
1862	Classification of Alzheimerâ $\in$ <sup>TM</sup> s disease based on deep learning. , 2022, , .		1
1863	Literature Review on Wireless Charging Technologies: Future Trend for Electric Vehicle?. , 2022, , .		12
1864	A Wideband Electromagnetic Energy Harvester Design for Internet of Things (IoT) applications. , 2022, ,		2
1865	Control Strategies of Hybrid Energy Harvesting—A Survey. Sustainability, 2022, 14, 16670.	1.6	1
1866	Wireless Powered Mobile Edge Computing Networks: A Survey. ACM Computing Surveys, 2023, 55, 1-37.	16.1	32
1867	Optimizing Worst Case Data Freshness in RF-Powered Networked Embedded Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 2877-2888.	1.9	1
1868	Performance Analysis of Unmanned Aerial Vehicle Enabled Wireless Power Transfer Considering Radio Frequency System Imperfections. Energy, 2023, 267, 126464.	4.5	2
1869	Wearable power management system enables uninterrupted battery-free data-intensive sensing and transmission. Nano Energy, 2023, 107, 108107.	8.2	6
1870	An overview of simultaneous wireless information and power transfer in massive MIMO networks: A resource allocation perspective. Physical Communication, 2023, 57, 101983.	1.2	6
1871	DC-Feedback-Mode Transistor Rectifier/Voltage-Doubler Diode Rectifier for Negative Gate Biasing to Microwave Power Amplifiers. , 2022, , .		0
1872	Deep Learning-based Task Offloading and Time Allocation for Edge Computing WBANs. , 2022, , .		0
1873	RF energy harvesting schemes for intelligent reflecting surface-aided cognitive radio sensor networks. Scientific Reports, 2022, 12, .	1.6	1
1874	Energy Efficiency Optimization in Multi-UAV Energy Harvesting Network. , 2022, , .		0
1875	An Efficient Dielectric Resonator Antenna for Dual-Band Dual-Polarized RFEH Applications in Smart City Environment. , 2022, , .		0
1876	Online Energy Consumption Optimization in WPCNs With Time-Varying Energy Storage Efficiency. IEEE Transactions on Communications, 2023, 71, 1771-1784.	4.9	2
1877	Maximizing the Sum-Rate of Secondary Cognitive Radio Networks by Jointly Optimizing Beamforming and Energy Harvesting Time. IEEE Transactions on Vehicular Technology, 2023, 72, 8128-8133.	3.9	2
1878	RF energy harvesting. , 2023, , 127-153.		0

#	Article	IF	Citations
1879	Self-Powered Sensors: Applications, Challenges, and Solutions. IEEE Sensors Journal, 2023, 23, 20483-20509.	2.4	9
1880	High-Performance Multiband Ambient RF Energy Harvesting Front-End System for Sustainable IoT Applications—A Review. IEEE Access, 2023, 11, 11143-11164.	2.6	16
1881	Dielectric Resonator Antennas for RF Energy-Harvesting/Wireless Power Transmission Applications: A state-of-the-art review. IEEE Antennas and Propagation Magazine, 2024, 66, 34-45.	1.2	3
1882	IRS-Assisted RF-Powered IoT Networks: System Modeling and Performance Analysis. IEEE Transactions on Communications, 2023, 71, 2425-2440.	4.9	6
1883	Energy Efficiency Maximization in RIS-Assisted SWIPT Networks With RSMA: A PPO-Based Approach. IEEE Journal on Selected Areas in Communications, 2023, 41, 1413-1430.	9.7	20
1884	Rectenna Design for Simultaneous Wireless Information and Power Transfer. , 2022, , .		0
1885	Integration of DL on Multi-Carrier Non-Orthogonal Multiple Access System with Simultaneous Wireless Information and Power Transfer. , 2022, , .		2
1886	Outage Analysis of IRS-Assisted RF Powered Networks for Energy-Constrained IoT Devices. IEEE Transactions on Wireless Communications, 2023, 22, 7805-7818.	6.1	0
1887	Temporal-Spatial-Frequency Resource Allocation. Wireless Networks, 2023, , 33-70.	0.3	0
1888	Energy Harvesters and Power Management. , 2023, , 1-45.		1
1889	Performance Analysis of Harvest-then-Access Protocol for Wireless Powered Communication Network. , 2023, , .		0
1890	Developing a region-based energy-efficient IoT agriculture network using region- based clustering and shortest path routing for making sustainable agriculture environment. Measurement: Sensors, 2023, 27, 100734.	1.3	4
1891	Outage performance of NOMA with Alamouti/MRC in dual-hop energy harvesting relay networks. Physical Communication, 2023, 58, 102026.	1.2	1
1892	Energy-efficient scheduling for active RIS-assisted self-sustainable wireless powered IoT networks in smart societies. Sustainable Cities and Society, 2023, 95, 104559.	5.1	1
1893	Network-aware RF-energy harvesting for designing energy efficient IoT networks. Internet of Things (Netherlands), 2023, 22, 100770.	4.9	7
1894	Joint task processing/offloading mode selection and resource-allocation for backscatter-aided and wireless-powered MEC. Computer Networks, 2023, 224, 109584.	3.2	1
1895	Power Distribution of D2D Communications in Case of Energy Harvesting Capability over κ-μ Shadowed Fading Conditions. Journal of Sensor and Actuator Networks, 2023, 12, 16.	2.3	1
1896	Design and Simulation of a Novel Multiband Circular Micropatch Antenna Array. , 2022, , .		Ο

#	Article	IF	CITATIONS
1897	Deep Learning Framework for Two-Way MISO Wireless-Powered Interference Channels. IEEE Transactions on Wireless Communications, 2023, 22, 6459-6473.	6.1	2
1898	Secrecy Performance of Energy Harvesting Based D2D Communications in Spectrum-Sharing Networks. , 2023, , .		0
1899	UAV-Based Data Collection and Wireless Power Transfer System with Deep Reinforcement Learning. , 2023, , .		2
1900	A Circuit Theory Perspective on the Modeling and Analysis of Vibration Energy Harvesting Systems: A Review. Computation, 2023, 11, 45.	1.0	0
1901	Energy Harvesting Enabled Adaptive Mode Selection for Cognitive Device-to-Device Communication in a Hybrid Wireless Network: A Stochastic Geometry Perspective. Wireless Personal Communications, 2023, 129, 1693-1716.	1.8	0
1902	Radio Frequency Energy Harvesting-Based Self-Powered Dairy Cow Behavior Classification System. IEEE Sensors Journal, 2023, 23, 8776-8788.	2.4	2
1903	Foldable RF Energy Harvesting System Based on Vertically Layered Metal Electrodes within a Single Sheet of Paper. Advanced Materials, 2023, 35, .	11.1	3
1904	A parallel computing based model for online binary computation offloading in mobile edge computing. Computer Communications, 2023, 203, 248-261.	3.1	3
1905	The Power Allocation for SWIPT-based Cognitive Two-Way Relay Networks with Rate Fairness Consideration. , 2022, , .		1
1906	Moment-Based Stochastic Analysis of a Bistable Energy Harvester with Matching Network. Applied Sciences (Switzerland), 2023, 13, 3880.	1.3	1
1907	Opportunistic Fluid Antenna Multiple Access. IEEE Transactions on Wireless Communications, 2023, 22, 7819-7833.	6.1	1
1908	Coding Techniques for Backscatter Communications—A Contemporary Survey. IEEE Communications Surveys and Tutorials, 2023, 25, 1020-1058.	24.8	12
1909	Deep Learning based Channel Estimation for Full-Duplex Backscatter Communication Systems. , 2023, , .		0
1910	Microstrip Patch Antenna Array Design for RF Energy Harvesting Applications. European Journal of Science and Technology, 0, , .	0.5	1
1911	An imperfect spectrum sensing-based multi-hop clustering routing protocol for cognitive radio sensor networks. Scientific Reports, 2023, 13, .	1.6	2
1912	Energy-Efficient Ground Base Station Antenna Array System for Wireless Back-Hauling and Two State Charging of Drone Base Stations. IEEE Internet of Things Journal, 2023, 10, 13798-13813.	5.5	0
1913	Distributed Batteryless Access Control for Data and Energy Integrated Networks: Modeling and Performance Analysis. IEEE Internet of Things Journal, 2023, 10, 13428-13441.	5.5	0
1914	Data Acquisition Control for UAV-Enabled Wireless Rechargeable Sensor Networks. Sensors, 2023, 23, 3582.	2.1	0

#	ARTICLE	IF	CITATIONS
1915	Optimization Scheme for Power Transmission in Wireless Sensor Network. , 2023, , .		0
1916	Distributed fusion filtering for multi-sensor systems under time-correlated fading channels and energy harvesters. Journal of the Franklin Institute, 2023, 360, 6021-6039.	1.9	0
1917	Joint Data Transmission and Trajectory Optimization in UAV-Enabled Wireless Powered Mobile Edge Learning Systems. IEEE Transactions on Vehicular Technology, 2023, , 1-14.	3.9	0
1918	Energy Optimization for IRS-Aided SWIPT Under Imperfect Cascaded Channels. IEEE Transactions on Vehicular Technology, 2023, 72, 11631-11643.	3.9	1
1919	A Survey on Enabling Technologies and Recent Advancements in 6G Communication. Journal of Physics: Conference Series, 2023, 2466, 012005.	0.3	0
1920	Joint Data Transmission and Energy Harvesting for MISO Downlink Transmission Coordination in Wireless IoT Networks. Sensors, 2023, 23, 3900.	2.1	Ο
1921	Battery-Free Pork Freshness Estimation Based on Colorimetric Sensors and Machine Learning. Applied Sciences (Switzerland), 2023, 13, 4896.	1.3	2
1922	Modelling and Simulation of Micro-electro-Mechanical Systems for Energy Harvesting of Random Mechanical Vibrations. Lecture Notes in Mechanical Engineering, 2023, , 81-92.	0.3	0
1928	Effective Short Packet Communication for Resource Allocation In Wireless Powered Iot Networks. , 2023, , .		0
1929	Performance Analysis of Backscatter-based Coordinated Direct and Relay Transmission with NOMA. , 2023, , .		2
1930	Modified Bow-Tie Antenna Design Using Artificial Hummingbird Algorithm for Wireless Power Transfer IoT Applications. , 2023, , .		0
1931	Experimental Study on Multi-Hop Wireless Power Transfer. , 2023, , .		1
1935	Hybrid Intermission—Cognitive Wireless Communication Network. Lecture Notes in Networks and Systems, 2023, , 811-822.	0.5	0
1938	A Novel Hybrid Backscatter Assisted Cognitive Radio Networks for Maximum Throughput. , 2023, , .		0
1941	Maximizing the Harvested Energy from Mechanical Random Vibrations with a Matching Network: A Stochastic Analysis. , 2022, , .		0
1942	Throughput maximization of EH-CRN-NOMA based on PPO. , 2023, , .		0
1946	Deep Learning based Low Complexity Relay Selection for Wireless Powered Cooperative Communication Networks. , 2023, , .		0
1953	Renewable Energy Power Assimilation to the Smart Grid and Electric Vehicles via Wireless Power Transfer Technology. , 2023, , .		0

#	Article	IF	CITATIONS
1954	On the Coexistence of LoRa and RF Power Transfer. , 2023, , .		0
1960	Efficient Wireless Charging System. , 2023, , .		1
1971	The UAV Assisted Wireless Powered on D2D Communication Hybrid AF/DF Multi Relay Based. , 2023, , .		0
1973	A Cooperative Protocol forÂWireless Energy Networks. Lecture Notes in Computer Science, 2023, , 13-18.	1.0	0
1978	Application of Stochastic Averaging to Vibrating Electro-mechanical Systems for Piezoelectric Energy Harvesting. , 2023, , .		0
1980	Sum Secrecy Rate Maximization for IRS-Aided SWIPT System with Artificial Noise. , 2023, , .		1
1984	Survey on Wireless Information Energy Transfer (WIET) and related applications in 6G Internet of NanoThings (IoNT). Proceedings of the Indian National Science Academy, 0, , .	0.5	0
1985	Study and Design of an RF Energy Harvesting System for WSN Networks. , 2023, , .		Ο
1992	Energy Efficient, Secure and Spectrum Aware Ultra-Low Power Internet-of-Things System Infrastructure for Precision Agriculture. , 2023, , .		0
1996	Distributed Relay Selection with Reduced Modulation-Order Signal Forwarding and Energy Harvesting. , 2023, , .		Ο
2000	Relay Selection Scheme with Optimal Bit Error Rate in Simultaneous Wireless Information and Power Transfer System. , 2023, , .		0
2001	Study of Antenna/Rectenna Communication Network Energy Harvesting for Radio Frequency (RF) Based on Metamaterial Structure. , 2022, , .		Ο
2006	Design of a 915 MHz SWIPT Integrated Receiver Based on Intermodulated Signals. , 2023, , .		0
2008	RF energy harvesters for wireless sensors, state of the art, future prospects and challenges: a review. Physical and Engineering Sciences in Medicine, 0, , .	1.3	Ο
2010	Wireless Power Transmission by Propagation of Electric Field Waves on Metal Surface. , 2023, , .		0
2011	Mitigating Jamming Attacks in IoT RF-Devices through Dynamic Channel Hopping: A Novel Petri-nets Formulation. , 2023, , .		0
2014	Energy Efficiency Optimization in SWIPT Enabled OFDM Systems. , 2023, , .		0
2017	Can IoT Devices be Powered up by Future Indoor Wireless Networks?. , 2024, , .		0
#	Article	IF	CITATIONS
------	--	----	-----------
2020	Experiments on Coexistence of Microwave WPT and Energy Harvesting with a Matrix Switching Circuit and Solar Power Cells. , 2023, , .		0