Energy Harvesting Sensor Nodes: Survey and Implicati

IEEE Communications Surveys and Tutorials

13, 443-461

DOI: 10.1109/surv.2011.060710.00094

Citation Report

#	Article	IF	Citations
1	Energy-efficient spectrum sensing for cognitive sensor networks. , 2009, , .		7
2	Wireless Sensor Networks - An Introduction. , 0, , .		36
3	An empirical study of harvesting-aware duty cycling in environmentally-powered wireless sensor networks. , 2010, , .		3
4	Towards Efficient Wireless Video Sensor Networks: A Survey of Existing Node Architectures and Proposal for A Flexi-WVSNP Design. IEEE Communications Surveys and Tutorials, 2011, 13, 462-486.	24.8	96
5	A preliminary study on lifetime maximization in clustered wireless sensor networks with energy harvesting nodes. , 2011, , .		7
6	Empirical modeling of a solar-powered energy harvesting wireless sensor node for time-slotted operation. , 2011, , .		51
7	In-field operation monitoring of induction motors using wireless modules running on harvested power. , 2011, , .		4
8	A self-powered adaptive wireless sensor network for wastewater treatment plants. , 2011, , .		5
9	Designing sustainable Wireless sensor networks with efficient energy harvesting systems. , 2011, , .		0
10	Optimal random access and random spectrum sensing for an energy harvesting cognitive radio. , 2012, , .		19
11	Probabilistic polling for multi-hop energy harvesting wireless sensor networks. , 2012, , .		30
12	Improving Application Availability in Wireless Sensor Networks with Energy-Harvesting Capability. , 2012, , .		0
13	Distributed adaptive sampling by rechargeable sensor nodes with limited battery capacity. , 2012, , .		4
14	Throughput optimal energy neutral management for energy harvesting wireless sensor networks. , 2012, , .		26
15	Ambient-RF-energy-harvesting sensor node with capacitor-leakage-aware duty cycle control. , 2012, , .		3
16	Design and analysis for reliable broadcast transmission in energy harvesting networks. , 2012, , .		1
17	LCMOS: Light-powered standard CMOS circuits. , 2012, , .		1
18	Electronically tunable switch-mode high-efficiency adaptive band-pass filters for energy harvesting applications. , 2012, , .		6

#	Article	IF	Citations
19	Dual-Stage Power Management Algorithms for Energy Harvesting Sensors. IEEE Transactions on Wireless Communications, 2012, 11, 1434-1445.	6.1	44
20	Energy harvesting system for deployment of Wireless Sensor Networks in Nuclear Fusion Reactor. , 2012, , .		1
21	Optimal save-then-transmit protocol for energy harvesting wireless transmitters. , 2012, , .		21
22	Mobility-aware charger deployment for wireless rechargeable sensor networks. , 2012, , .		38
23	Design and analysis of a micro-solar power for Wireless Sensor Networks. , 2012, , .		6
24	Reconfigurable miniature sensor nodes for condition monitoring. , 2012, , .		8
25	Distributed relay scheduling for maximizing lifetime in clustered wireless sensor networks. , 2012, , .		3
26	A Compact 3-D Harmonic Repeater for Passive Wireless Sensing. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3309-3316.	2.9	18
27	A joint energy harvesting and consumption model for self-powered nano-devices in nanonetworks. , 2012, , .		32
28	DRIFT: Differentiated RF Power Transmission for Wireless Sensor Network deployment in the smart grid. , 2012, , .		16
29	DeepSleep: IEEE 802.11 enhancement for energy-harvesting Machine-to-Machine communications. , 2012, , .		3
30	Energy harvesting for Zigbee compliant Wireless Sensor Network nodes. , 2012, , .		9
31	Remotely Powered Underwater Acoustic Sensor Networks. IEEE Sensors Journal, 2012, 12, 3467-3472.	2.4	36
32	Optimal mode selection for cognitive radio sensor networks with RF energy harvesting. , 2012, , .		61
33	Energy Harvesting for Sustainable Smart Spaces. Advances in Computers, 2012, , 203-251.	1.2	6
34	Mission-aware placement of RF-based power transmitters in wireless sensor networks. , 2012, , .		24
35	An optimal energy allocation algorithm for energy harvesting wireless sensor networks. , 2012, , .		66
36	Focal design issues affecting the deployment of wireless sensor networks for pipeline monitoring. Ad Hoc Networks, 2013, 11, 1237-1253.	3.4	59

#	Article	IF	Citations
37	Throughput optimization for self-powered wireless communications with variable energy harvesting rate. , 2013, , .		14
38	Sensor Technologies. , 2013, , .		67
39	Wireless Information Transfer with Opportunistic Energy Harvesting. IEEE Transactions on Wireless Communications, 2013, 12, 288-300.	6.1	578
40	Adaptive data compression for energy harvesting wireless sensor nodes. , 2013, , .		8
41	When simplicity meets optimality: Efficient transmission power control with stochastic energy harvesting. , 2013, , .		38
42	Cognitive Radio Wireless Sensor Networks: Applications, Challenges and Research Trends. Sensors, 2013, 13, 11196-11228.	2.1	219
43	Emergency Communication System for Fault Diagnosis in Power Distribution Networks. , 2013, , .		1
44	Renewable energy scheduling for fading channels with maximum power constraint. , 2013, , .		7
45	Distributed Sampling Rate Control for Rechargeable Sensor Nodes with Limited Battery Capacity. IEEE Transactions on Wireless Communications, 2013, 12, 3096-3106.	6.1	69
46	Ambient RF Energy Harvesting Sensor Device With Capacitor-Leakage-Aware Duty Cycle Control. IEEE Sensors Journal, 2013, 13, 2973-2983.	2.4	97
47	A Green Time-Bounded Routing Protocol in Solar-Based Vehicular Networks. , 2013, , .		2
48	EHPBS: Energy harvesting prediction based scheduling in wireless sensor networks. , 2013, , .		2
49	Towards energy neutrality in energy harvesting wireless sensor networks: A case for distributed compressive sensing?. , 2013, , .		1
50	Joint information and energy transfer in the spatial domain with channel estimation error. , 2013, , .		12
51	Multi-hop wireless charging optimization in low-power networks. , 2013, , .		24
52	Harvest-use cooperative networks with half/full-duplex relaying. , 2013, , .		53
53	AGREE: exploiting energy harvesting to support data-centric access control in WSNs. Ad Hoc Networks, 2013, 11, 2625-2636.	3.4	31
55	Connectivity Weakness Impacts on Coordination in Wireless Sensor and Actor Networks. IEEE Communications Surveys and Tutorials, 2013, 15, 145-166.	24.8	31

#	Article	IF	Citations
56	Optimal Save-Then-Transmit Protocol for Energy Harvesting Wireless Transmitters. IEEE Transactions on Wireless Communications, 2013, 12, 1196-1207.	6.1	193
57	Analysis of Supercapacitor Energy Loss for Power Management in Environmentally Powered Wireless Sensor Nodes. IEEE Transactions on Power Electronics, 2013, 28, 5391-5403.	5.4	83
58	Analysis of two dimensional, wide-band, bistable vibration energy harvester. Sensors and Actuators A: Physical, 2013, 202, 176-182.	2.0	94
59	Stochastic modeling and analysis of wireless sensor nodes with hybrid storage systems. , 2013, , .		0
60	Optimizing feedback in energy harvesting MISO communication channels. , 2013, , .		4
61	An energy management scheme for solar-powered Wireless Visual Sensor Networks toward uninterrupted operations. , 2013, , .		8
62	Optimal power and rate allocation in the degraded Gaussian relay channel with energy harvesting nodes. , 2013, , .		7
63	Analytic Conditions for Energy Neutrality in Uniformly-Formed Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2013, 12, 4916-4931.	6.1	12
64	DIRECT: A model for molecular communication nanonetworks based on discrete entities. Nano Communication Networks, 2013, 4, 181-188.	1.6	66
65	An online energy allocation strategy for energy harvesting cognitive radio systems. , 2013, , .		5
66	Distributed Networking in Autonomic Solar Powered Wireless Sensor Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 750-761.	9.7	38
67	Experiment on battery-less sensor activation via multi-point wireless energy transmission. , 2013, , .		4
68	Research of Wireless Sensor Network Nodes Based on Ambient Energy Harvesting. , 2013, , .		8
69	High-voltage generation using a CMOS image sensor with dual photo-sensing and energy harvesting capabilities. , 2013, , .		3
70	Wireless Sensor Networks for Smart Grid Applications: A Case Study on Link Reliability and Node Lifetime Evaluations in Power Distribution Systems. International Journal of Distributed Sensor Networks, 2013, 9, 796248.	1.3	48
71	Anycast Routing Protocol for Forest Monitoring in Rechargeable Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2013, 9, 239860.	1.3	7
72	SIVEH: Numerical Computing Simulation of Wireless Energy-Harvesting Sensor Nodes. Sensors, 2013, 13, 11750-11771.	2.1	10
73	Energy-aware broadcast MU-MIMO precoder design with imperfect battery knowledge. , 2013, , .		1

#	Article	IF	Citations
74	Femto-station allocation for green hierarchical cellular network. , 2013, , .		0
75	Power Allocation in Multiuser MIMO Systems for Simultaneous Wireless Information and Power Transfer. , 2013, , .		11
76	A Low-Power Photovoltaic Maximum Power Point Tracking Circuit for WSNs. Key Engineering Materials, 2013, 562-565, 1045-1051.	0.4	0
77	A hybrid CMOS imager with sensing and energy harvesting capabilities. , 2013, , .		3
78	Energy Neutral Clustering for energy harvesting wireless sensors networks. , 2013, , .		3
79	A classification of solutions for the energy limitation in Wireless Sensor Networks. , 2013, , .		7
80	Spectrum-efficient operating policy for energy-harvesting clustered wireless networks. , 2013, , .		1
81	Utilising convolutions of random functions to realise function calculation via a physical channel. , 2013, , .		1
82	Hybrid energy harvesting wireless systems: Performance evaluation and benchmarking. , 2013, , .		3
83	Throughput maximization for energy harvesting nodes transmitting over time-varying channels. , 2013, , .		3
84	Average throughput maximization for energy harvesting transmitters with causal energy arrival information. , 2013, , .		5
85	A distributed source rate control optimization approach in energy harvesting wireless sensor networks. , 2013, , .		0
86	Optimized random deployment of large-scale energy-harvesting sensors for field reconstruction. , 2013, , .		1
87	System trade-offs in point-to-point energy harvesting wireless networks with finite size batteries and buffers. , 2013, , .		0
88	Optimal transmission policies for energy harvesting nodes with partial information of energy arrivals. , 2013, , .		1
89	Simultaneous wireless information and power transfer in multiuser MIMO systems. , 2013, , .		13
90	Fundamentals of base station availability in cellular networks with energy harvesting. , 2013, , .		11
91	FPGA Based Single Chip Solution with 1-Wire Protocol for the Design of Smart Sensor Nodes. Journal of Sensors, 2014, 2014, 1-11.	0.6	9

#	Article	IF	Citations
92	On the Modeling of Solar-Powered Wireless Sensor Nodes. Journal of Sensor and Actuator Networks, 2014, 3, 207-223.	2.3	5
94	Wireless Sensor and Communication Nodes with Energy Harvesting. Journal of Communication Navigation Sensing and Services (CONASENSE), 2014, 1, 47-66.	0.2	5
96	Inkjet-printed GSM900 band RF power harvester on paper-based substrates. , 2014, , .		0
97	Robust energy harvesting aware clustering with fuzzy petri net reasoning algorithm. , 2014, , .		3
98	Performance of Wireless Nano-Sensor Networks with Energy Harvesting. , 2014, , .		5
99	Wire-bonds used as matching inductor in RF energy harvesting applications. , 2014, , .		2
100	Joint link selection and relay power allocation for energy harvesting relaying systems. , 2014, , .		14
101	A range-based sleep scheduling algorithm for desired area coverage in solar-powered wireless sensor networks. , 2014, , .		3
102	Stress wave communication in concrete: II. Evaluation of low voltage concrete stress wave communications utilizing spectrally efficient modulation schemes with PZT transducers. Smart Materials and Structures, 2014, 23, 125031.	1.8	25
103	MAC protocol for energy-harvesting users in cognitive radio networks. , 2014, , .		10
104	SolarCastalia — Solar energy harvesting wireless sensor network simulator. , 2014, , .		2
105	Performance analysis for energy harvesting communication protocols with fixed rate transmission. IET Communications, 2014, 8, 3259-3270.	1.5	5
106	Schedulability decision of charging missions in wireless rechargeable sensor networks. , 2014, , .		10
107	MEGA: An energy aware algorithm for self-powered wireless sensor networks in sustainable smart infrastructure. , 2014, , .		0
108	Energy harvesting framework for network simulator 3 (ns-3). , 2014, , .		19
109	The impact of relay selection on the tradeoff between information transmission and wireless energy transfer. , 2014, , .		4
110	Opportunistic routing protocol with grid-based relay slot selection in Energy Harvesting WSNs. , 2014, , .		3
111	Multi-commodity online maximum lifetime utility routing for energy-harvesting wireless sensor networks. , 2014, , .		9

#	Article	IF	Citations
112	Energy-aware user scheduling for downlink multiuser-MIMO systems. , 2014, , .		1
113	A randomized scheduling algorithm for energy harvesting wireless sensor networks achieving nearly 100% throughput. , 2014, , .		12
114	Power generation by spurious emissions from compact fluorescent lamps. , 2014, , .		3
115	State-of-the-art low-power transceivers for the next generation of wireless sensor networks motes. , 2014, , .		2
116	Throughput maximization in wireless powered communication networks with energy saving. , 2014, , .		17
117	Energy harvesting of spurious emissions of compact fluorescent lamps for home monitoring applications. , 2014, , .		2
118	Energy-aware resource allocation with energy harvesting in heterogeneous wireless network. , 2014, , .		7
119	RF energy harvesting enabled power sharing in relay networks. , 2014, , .		12
120	TRW: An energy storage capacity model for energy harvesting sensors in wireless sensor networks. , 2014, , .		3
121	Data-driven stochastic scheduling for solar-powered sensor communications. , 2014, , .		1
122	0, 1, 2, many — A classroom occupancy monitoring system for smart public buildings. , 2014, , .		10
123	Optimal training for wireless energy transfer. , 2014, , .		4
124	Adaptive Quantization for Distributed Estimation in Energy-Harvesting Wireless Sensor Networks: A Game-Theoretic Approach. International Journal of Distributed Sensor Networks, 2014, 10, 217918.	1.3	6
125	Joint Management of Energy Harvesting, Storage, and Usage for Green Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 250236.	1.3	3
126	Distributed estimation with analog forwarding in energy-harvesting wireless sensor networks. , 2014, , .		5
127	Performance Evaluation for Energy-Harvesting Machine-Type Communication in LTE-A System. , 2014, , .		3
128	Maximizing lifetime for k-barrier coverage in energy harvesting wireless sensor networks. , 2014, , .		7
129	Distributed Optimal Lexicographic Max-Min Rate Allocation in Solar-Powered Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2014, 11, 1-35.	2.3	24

#	Article	IF	Citations
130	Energy Efficient Routing Protocol for Wireless Sensor Networks - An Eco-Friendly Approach. , 2014, , .		4
131	Finite-horizon optimal transmission policies for energy harvesting sensors. , 2014, , .		6
132	Optimal performance trade-offs in MAC for wireless sensor networks powered by heterogeneous ambient energy harvesting. , 2014, , .		7
133	Optimal energy-bandwidth allocation for energy harvesting interference networks. , 2014, , .		6
134	Information dissemination with epidemic routing in energy harvesting wireless sensor networks. , 2014, , .		1
135	Towards Perpetual Sensor Networks via Deploying Multiple Mobile Wireless Chargers. , 2014, , .		31
136	Wireless Energy Harvesting and Spectrum Sharing in Cognitive Radio. , 2014, , .		50
137	WARIM: Wireless Sensor Networks Architecture for a Reliable Intersection Monitoring. , 2014, , .		11
138	Power Allocation for Energy Harvesting Transmitter With Causal Information. IEEE Transactions on Communications, 2014, 62, 4080-4093.	4.9	36
139	Maximizing continuous barrier coverage in energy harvesting sensor networks. , 2014, , .		8
140	Circuit area optimization in energy temporal sparse scenarios for multiple harvester powered systems. , 2014, , .		1
141	Intra-task scheduling for storage-less and converter-less solar-powered nonvolatile sensor nodes. , 2014, , .		13
142	Design Space Exploration of Centimeter-Scale Wind Turbines using a Physics-Modified Optimization Formulation. Journal of Mechanics, 2014, 30, 537-548.	0.7	4
143	Trade-offs in estimating maximum of sensor readings in energy harvesting wireless networks. , 2014, , .		0
144	Dynamic power management for long-term energy neutral operation of solar energy harvesting systems. , 2014, , .		61
145	Energy Scavenging Technology and Components in WSN. International Journal of Computer Network and Information Security, 2014, 6, 44-51.	1.8	3
147	Statistical models for battery recharging time in RF energy harvesting systems. , 2014, , .		17
148	Analysis and performance evaluation of Dynamic Frame Slotted-ALOHA in wireless Machine-to-Machine networks with energy harvesting. , 2014, , .		14

#	Article	IF	Citations
149	A harvest-use-store mode for energy harvesting communication systems with optimal power policy. , 2014, , .		5
150	An energy harvesting AWGN channel with a finite battery. , 2014, , .		36
151	Alternative power sources for remote sensors: A review. Journal of Power Sources, 2014, 245, 129-143.	4.0	175
152	A novel self-powered wireless temperature sensor based on thermoelectric generators. Energy Conversion and Management, 2014, 80, 110-116.	4.4	85
153	Spatial Modulation for Generalized MIMO: Challenges, Opportunities, and Implementation. Proceedings of the IEEE, 2014, 102, 56-103.	16.4	1,206
154	Energy efficiency in wireless sensor networks: A top-down survey. Computer Networks, 2014, 67, 104-122.	3.2	723
155	Novel Algorithms for Complete Targets Coverage in Energy Harvesting Wireless Sensor Networks. IEEE Communications Letters, 2014, 18, 118-121.	2.5	71
156	Survey on wakeup scheduling for environmentally-powered wireless sensor networks. Computer Communications, 2014, 52, 21-36.	3.1	35
157	Resonant Energy Scavenger for Sensor Powering by Spurious Emissions From Compact Fluorescent Lamps. IEEE Sensors Journal, 2014, 14, 2347-2354.	2.4	7
158	Reliable Multicast and Broadcast Mechanisms for Energy-Harvesting Devices. IEEE Transactions on Vehicular Technology, 2014, 63, 1813-1826.	3.9	17
159	Delay-Limited Communications of Mobile Node With Wireless Energy Harvesting: Performance Analysis and Optimization. IEEE Transactions on Vehicular Technology, 2014, 63, 1870-1885.	3.9	29
160	Review of the application of energy harvesting in buildings. Measurement Science and Technology, 2014, 25, 012002.	1.4	217
161	Design and evaluation of multi-band RF energy harvesting circuits and antennas for WSNs. , 2014, , .		12
162	Exploiting multi-channel transmission for opportunistic access with renewable energy sources. , 2014, , .		1
163	Relaying and stability in energy harvesting simple networks. , 2014, , .		0
164	Mobile radio frequency charger for wireless sensor networks in the smart grid. , 2014, , .		4
165	Wireless Sensor Systems for Space and Extreme Environments: A Review. IEEE Sensors Journal, 2014, 14, 3955-3970.	2.4	66
166	An efficient energy and power manager for autonomous systems based on energy harvesting. Analog Integrated Circuits and Signal Processing, 2014, 81, 299-311.	0.9	2

#	Article	IF	Citations
167	Optimal Energy Allocation for Energy Harvesting Transmitters With Hybrid Energy Storage and Processing Cost. IEEE Transactions on Signal Processing, 2014, 62, 3232-3245.	3.2	72
168	Energy Harvesting Aware routing protocol for wireless sensor networks. , 2014, , .		21
169	Energy Buffer Dimensioning Through Energy-Erlangs in Spatio-Temporal-Correlated Energy-Harvesting-Enabled Wireless Sensor Networks. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 301-312.	2.7	19
170	Interference aided energy harvesting in decode-and-forward relaying systems. , 2014, , .		60
171	Wireless Information and Power Transfer With Full Duplex Relaying. IEEE Transactions on Communications, 2014, 62, 3447-3461.	4.9	358
172	Wireless Smart Camera Networks for the Surveillance of Public Spaces. Computer, 2014, 47, 37-44.	1.2	42
173	Reliability-Oriented Single-Path Routing Protocols in Wireless Sensor Networks. IEEE Sensors Journal, 2014, 14, 4059-4068.	2.4	61
174	Distributed estimation based on game theory in energy harvesting wireless sensor networks. , 2014, , .		2
175	Feasibility of simultaneous information and energy transfer in LTE-A small cell networks. , 2014, , .		4
176	Energy harvesting for infrastructure sensing systems. , 2014, , 510-536.		1
177	Robust probabilistic information dissemination in energy harvesting wireless sensor networks. , 2014, , .		2
178	Simultaneous information and power transfer for relay-assisted cognitive radio networks. , 2014, , .		10
179	Energy efficient transmission strategies for distributed detection in wireless sensor networks. , 2014, , .		0
180	Wastage-Aware Routing in Energy-Harvesting Wireless Sensor Networks. IEEE Sensors Journal, 2014, 14, 2967-2974.	2.4	54
181	Distributed opportunistic scheduling for wireless networks powered by renewable energy sources. , 2014, , .		9
182	BWS: Beacon-driven wake-up scheme for train localization using wireless sensor networks. , 2014, , .		2
183	Reincarnation in the Ambiance: Devices and Networks with Energy Harvesting. IEEE Communications Surveys and Tutorials, 2014, 16, 195-213.	24.8	91
184	A Low-Cost Sensor Network for Real-Time Monitoring and Contamination Detection in Drinking Water Distribution Systems. IEEE Sensors Journal, 2014, 14, 2765-2772.	2.4	215

#	Article	IF	Citations
185	Data Aggregation Routing for Rechargeable Wireless Sensor Networks in Forest Monitoring. Wireless Personal Communications, 2014, 79, 773-788.	1.8	9
186	Optimal Cooperation Strategy in Cognitive Radio Systems with Energy Harvesting. IEEE Transactions on Wireless Communications, 2014, 13, 4693-4707.	6.1	129
187	Hybrid Energy Harvesting Wireless Systems: Performance Evaluation and Benchmarking. IEEE Transactions on Wireless Communications, 2014, 13, 4782-4793.	6.1	21
188	Energy Harvesting Using Substrate Photodiodes. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 501-505.	2.2	17
189	Access Strategy for Hybrid Underlay-Overlay Cognitive Radios With Energy Harvesting. IEEE Sensors Journal, 2014, 14, 3164-3173.	2.4	83
190	A Survey on Wireless Body Area Networks: Technologies and Design Challenges. IEEE Communications Surveys and Tutorials, 2014, 16, 1635-1657.	24.8	577
191	Energy-Aware Broadcast Multiuser-MIMO Precoder Design with Imperfect Channel and Battery Knowledge. IEEE Transactions on Wireless Communications, 2014, 13, 3137-3152.	6.1	21
192	On systems generating context triggers through energy harvesting. , 2014, 52, 70-77.		7
193	Joint Energy Allocation for Sensing and Transmission in Rechargeable Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 2862-2875.	3.9	75
194	Prediction free energy neutral power management for energy harvesting wireless sensor nodes. Ad Hoc Networks, 2014, 13, 351-367.	3.4	36
195	Wireless Rechargeable Sensor Networks in the Smart Grid. , 2014, , 303-325.		0
196	A Voronoi-Based Sensor Handover Protocol for Target Tracking in Distributed Visual Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 586210.	1.3	8
197	Leveraging Deliberately Generated Interferences for Multi-Sensor Wireless RF Power Transmission. , 2014, , .		0
198	An Efficient Linear Precoding Algorithm for Energy Harvesting Transmitter with Finite-Alphabet Inputs and Instantaneous CSI. , 2014, , .		0
199	Performance Analysis for Energy Harvesting Communication Systems: From Throughput to Energy Diversity. , 2014, , .		0
200	Joint Optimization of Data Routing and Energy Routing in Energy-Cooperative WSNs. , 2014, , .		0
201	Performance of Wireless-Powered Sensor Transmission Considering Energy Cost of Sensing. , 2014, , .		1
202	Wireless power transfer for distributed estimation in wireless passive sensor networks. , 2015, , .		3

#	Article	IF	Citations
203	A Thermoelectric Energy Harvester with a Cold Start of 0.6Â°C. Materials Today: Proceedings, 2015, 2, 823-832.	0.9	9
204	Cost minimization of wireless sensor networks with unlimited-lifetime energy for monitoring oil pipelines. IEEE/CAA Journal of Automatica Sinica, 2015, 2, 290-295.	8.5	58
205	A Novel Metric for Opportunistic Routing in Heterogenous Duty-Cycled Wireless Sensor Networks. , 2015, , .		7
206	SolarCastalia: Solar Energy Harvesting Wireless Sensor Network Simulator. International Journal of Distributed Sensor Networks, 2015, 11, 415174.	1.3	19
207	MAC Protocols for Energy Harvesting Wireless Sensor Networks: Survey. ETRI Journal, 2015, 37, 804-812.	1.2	42
208	Power allocation for uplink multi-user energy harvesting relay systems with sleep mode. , 2015, , .		0
209	An Efficient Linear Precoding Algorithm for Energy Harvesting Transmitter with Finite-Alphabet Inputs and Instantaneous CSI. , 2015, , .		1
210	Performance of Wireless-Powered Sensor Transmission Considering Energy Cost of Sensing. , 2015, , .		3
211	Leveraging Deliberately Generated Interferences for Multi-Sensor Wireless RF Power Transmission. , 2015, , .		7
212	Performance Analysis for Energy Harvesting Communication Systems: From Throughput to Energy Diversity. , 2015, , .		2
213	Joint Optimization of Data Routing and Energy Routing in Energy-Cooperative WSNs. , 2015, , .		3
214	Variable-power scheduling for perpetual target coverage in energy harvesting wireless sensor networks. , 2015, , .		9
215	Network-coded secondary communication with opportunistic energy harvesting. , 2015, , .		1
216	User association for energy harvesting relay stations in cellular networks. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	1.5	3
217	Managing Emergency Situations in the Smart City: The Smart Signal. Sensors, 2015, 15, 14370-14396.	2.1	21
218	A low energy adaptive clustering multi-hop routing protocol based on fuzzy decision. Journal of Intelligent and Fuzzy Systems, 2015, 29, 2547-2554.	0.8	7
219	Energy-Harvesting Relay Selection Schemes for Decode-and-Forward Dual-Hop Networks. IEICE Transactions on Communications, 2015, E98.B, 2485-2495.	0.4	6
220	Energy-aware selective compression scheme for solar energy based wireless sensor networks. , 2015, , .		0

#	Article	IF	Citations
221	Smart concretes and structures: A review. Journal of Intelligent Material Systems and Structures, 2015, 26, 1303-1345.	1.4	184
222	A Secure Multiple-Access Scheme for Rechargeable Wireless Sensors in the Presence of an Eavesdropper. IEEE Communications Letters, 2015, 19, 945-948.	2.5	8
223	On spectrum sharing between energy harvesting cognitive radio users and primary users. , 2015, , .		29
224	Toward self-sustainable cooperative relays: state of the art and the future. , 2015, 53, 56-62.		35
225	Energy harvesting small cell networks: feasibility, deployment, and operation. , 2015, 53, 94-101.		100
226	Wireless energy harvesting for the Internet of Things. , 2015, 53, 102-108.		511
227	Online Resource Allocation for Energy Harvesting Downlink Multiuser Systems: Precoding With Modulation, Coding Rate, and Subchannel Selection. IEEE Transactions on Wireless Communications, 2015, 14, 5780-5794.	6.1	16
228	Modular Performance Analysis of Energy-Harvesting Real-Time Networked Systems. , 2015, , .		5
229	Key revocation in wireless sensor networks: a survey on a less-addressed yet vital issue. International Journal of Ad Hoc and Ubiquitous Computing, 2015, 18, 3.	0.3	3
230	Cooperative repeaters to improve data collection in low power generation for solar-powered wireless sensor networks. , 2015, , .		1
231	Energy harvesting for cooperative wireless sensor networks with a nonlinear power consumption model. , 2015, , .		0
232	Spy vs. spy: Camouflage-based active detection in energy harvesting motivated networks. , 2015, , .		19
233	Using a mobile vehicle for road condition surveillance by energy harvesting sensor nodes. , 2015, , .		6
234	Priority-Based Greedy Scheduling for Confident Information Coverage in Energy Harvesting Wireless Sensor Networks. , 2015, , .		6
235	A critical survey on marsupial robotic teams for environmental monitoring of water bodies. , 2015, , .		10
236	Distributed compression and transmission with energy harvesting sensors. , 2015, , .		6
237	Reservation Dynamic Frame Slotted-ALOHA for wireless M2M networks with energy harvesting. , 2015, , .		22
238	Overview of MAC protocols for energy harvesting wireless sensor networks. , 2015, , .		15

#	Article	IF	Citations
239	Efficiency of DC Combination of Rectified Waveforms in Energy Harvesting Systems. , 2015, , .		8
240	Energy-bandwidth allocation in multiple orthogonal broadcast channels with energy harvesting. , 2015, , .		2
241	Integrating Cellular Networks, Smart Grid, and Renewable Energy: Analysis, Architecture, and Challenges. IEEE Access, 2015, 3, 2755-2770.	2.6	123
242	Self-powered wearable sensor node: Challenges and opportunities. , 2015, , .		1
243	Power Management in Cluster-Based Energy-Harvesting Sensor Networks through Dynamic Modulation Scaling. , 2015, , .		0
244	Harvesting Management in Multiuser MIMO Systems with Simultaneous Wireless Information and Power Transfer. , 2015, , .		2
245	A sun energy harvester model for the network simulator 3 (ns-3). , 2015, , .		2
246	Optimal placement and number of energy transmitters in wireless sensor networks for RF energy transfer. , 2015, , .		14
247	Energy Allocation for Sensing and Transmission in WSNs with Energy Harvesting Tx/Rx. , 2015, , .		3
248	Clustering routing algorithm of self-energized wireless sensor networks based on solar energy harvesting. Journal of China Universities of Posts and Telecommunications, 2015, 22, 66-73.	0.8	21
249	Joint power splitting and resource allocation with QoS guarantees in RF-harvesting-powered cognitive OFDM relay systems. , 2015, , .		2
250	Indoor light energy harvesting system for battery recharging and wireless sensor networks implemented in 90nm CMOS technology. , 2015, , .		7
251	Solar energy harvesting design framework for 3.3 V small and low-powered devices in wireless sensor network. , 2015, , .		4
252	Energy Harvesting Using an Array of Granules. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.0	16
253	A Sybil Attack Detection Scheme for a Centralized Clustering-Based Hierarchical Network. , 2015, , .		44
254	On Green-Energy-Powered Cognitive Radio Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 827-842.	24.8	174
255	DeepSleep: IEEE 802.11 enhancement for energy-harvesting machine-to-machine communications. Wireless Networks, 2015, 21, 357-370.	2.0	35
256	Data-Driven Stochastic Models and Policies for Energy Harvesting Sensor Communications. IEEE Journal on Selected Areas in Communications, 2015, , 1-1.	9.7	89

#	Article	IF	Citations
257	Optimal Harvest-Use-Store Strategy for Energy Harvesting Wireless Systems. IEEE Transactions on Wireless Communications, 2015, 14, 698-710.	6.1	60
258	Energy Management and Cross Layer Optimization for Wireless Sensor Network Powered by Heterogeneous Energy Sources. IEEE Transactions on Wireless Communications, 2015, 14, 2814-2826.	6.1	64
259	Context-awareness and the smart grid: Requirements and challenges. Computer Networks, 2015, 79, 263-282.	3.2	30
260	A Compact Dual-Channel Transceiver for Long-Range Passive Embedded Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 287-294.	2.9	5
261	Energy Harvesting Wireless Communications: A Review of Recent Advances. IEEE Journal on Selected Areas in Communications, 2015, 33, 360-381.	9.7	777
262	Optimization of Energy Harvesting MISO Communication System With Feedback. IEEE Journal on Selected Areas in Communications, 2015, 33, 396-406.	9.7	14
263	Iterative Dynamic Water-Filling for Fading Multiple-Access Channels With Energy Harvesting. IEEE Journal on Selected Areas in Communications, 2015, 33, 382-395.	9.7	110
264	On the Performance of Overlaid Wireless Sensor Transmission with RF Energy Harvesting. IEEE Journal on Selected Areas in Communications, 2015, , 1-1.	9.7	53
265	Relay Selection for Simultaneous Information Transmission and Wireless Energy Transfer: A Tradeoff Perspective. IEEE Journal on Selected Areas in Communications, 2015, , 1-1.	9.7	104
266	Optimum Policies for an Energy Harvesting Transmitter Under Energy Storage Losses. IEEE Journal on Selected Areas in Communications, 2015, 33, 467-481.	9.7	83
267	Energy Harvesting Receivers: Packet Sampling and Decoding Policies. IEEE Journal on Selected Areas in Communications, 2015, 33, 558-570.	9.7	22
268	Energy replenishment using renewable and traditional energy resources for sustainable wireless sensor networks: A review. Renewable and Sustainable Energy Reviews, 2015, 45, 769-784.	8.2	260
269	On Outage Probability for Stochastic Energy Harvesting Communications in Fading Channels. IEEE Signal Processing Letters, 2015, 22, 1893-1897.	2.1	20
270	A Green Time-Bounded Routing on Solar-Based Vehicular Ad-Hoc Networks. Intelligent Automation and Soft Computing, 2015, 21, 455-472.	1.6	1
271	On complete targets coverage and connectivity in energy harvesting wireless sensor networks. , 2015, , .		11
272	Energy Efficient Power Allocation in OFDM-Based CRNs with Cyclic Prefix Power Transfer. , 2015, , .		3
273	Energy-Efficient Simultaneous Information and Power Transfer in OFDM-Based CRNs. , 2015, , .		4
274	Optimized Random Deployment of Energy Harvesting Sensors for Field Reconstruction in Analog and Digital Forwarding Systems. IEEE Transactions on Signal Processing, 2015, 63, 5194-5209.	3.2	12

#	Article	IF	Citations
275	Energy aware adaptive sampling algorithm for energy harvesting wireless sensor networks. , 2015, , .		29
276	On using Wireless Power Transfer to increase the max flow of Rechargeable Wireless Sensor Networks. , 2015, , .		3
277	Adaptive Control of the Packet Transmission Period with Solar Energy Harvesting Prediction in Wireless Sensor Networks. Sensors, 2015, 15, 9741-9755.	2.1	13
278	Throughput Maximization for Secondary User Under Battery Imperfections in Cognitive Radio Networks. IEEE Sensors Journal, 2015, 15, 5616-5623.	2.4	1
279	Opportunistic relaying with wireless energy harvesting in a cognitive radio system. , 2015, , .		14
280	Design and Field Test of a WSN Platform Prototype for Long-Term Environmental Monitoring. Sensors, 2015, 15, 9481-9518.	2.1	43
281	Flapping dynamics of a piezoelectric membrane behind a circular cylinder. Journal of Fluids and Structures, 2015, 55, 347-363.	1.5	24
282	Power Scheduling for Energy Harvesting Wireless Communications With Battery Capacity Constraint. IEEE Transactions on Wireless Communications, 2015, 14, 4640-4653.	6.1	16
283	Markov Decision Processes With Applications in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 1239-1267.	24.8	154
284	Maximizing lifetime in clustered WSNs with energy harvesting relay: Profiling and modeling. , 2015, , .		5
285	Powering the IoT: Storage-less and converter-less energy harvesting. , 2015, , .		35
286	Spatial Domain Simultaneous Information and Power Transfer for MIMO Channels. IEEE Transactions on Wireless Communications, 2015, 14, 4115-4128.	6.1	32
287	Optimal spectrum access for a rechargeable cognitive radio user based on energy buffer state. , 2015, , .		3
288	Recent Advances in Underlay Heterogeneous Networks: Interference Control, Resource Allocation, and Self-Organization. IEEE Communications Surveys and Tutorials, 2015, 17, 700-729.	24.8	154
289	Adaptive transmission control for communication systems with unstable renewable energy sources. , 2015, , .		0
290	Power loss analysis with high primary current in magnetic energy harvesters. , 2015, , .		10
291	Joint Energy-Bandwidth Allocation in Multiple Broadcast Channels With Energy Harvesting. IEEE Transactions on Communications, 2015, 63, 3842-3855.	4.9	17
292	On Energy Harvesting Gain and Diversity Analysis in Cooperative Communications. IEEE Journal on Selected Areas in Communications, 2015, 33, 2641-2657.	9.7	54

#	Article	IF	Citations
293	A non-harmonic motion-powered piezoelectric FM wireless sensing system. , 2015, , .		2
294	Compiler directed automatic stack trimming for efficient non-volatile processors. , 2015, , .		25
295	A stochastic geometry analysis of cooperative wireless networks powered by energy harvesting. , 2015, , .		2
296	Maximum Transmission Rate of PSR/TSR Protocols in Wireless Energy Harvesting DF-Based Relay Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2701-2717.	9.7	73
297	Power-optimal feedback-based random spectrum access for an energy harvesting cognitive user. , 2015, , .		3
298	Fixing the broken time machine. , 2015, , .		64
299	Robust optimization of cognitive radio networks powered by energy harvesting. , 2015, , .		5
300	RF-Based Energy Harvesting in Decode-and-Forward Relaying Systems: Ergodic and Outage Capacities. IEEE Transactions on Wireless Communications, 2015, 14, 6425-6434.	6.1	200
301	Enhancement on energy extraction from magnetic energy harvesters. , 2015, , .		8
302	Online resource allocation for energy harvesting downlink MIMO systems with finite-alphabet inputs. , 2015, , .		1
303	D2ART: Direct Data Accessing from Passive RFID Tag for infra-less, contact-less, and battery-less pervasive computing. Microprocessors and Microsystems, 2015, 39, 767-781.	1.8	2
304	On the Capacity of Energy Harvesting Communication Link. IEEE Journal on Selected Areas in Communications, 2015, 33, 2671-2686.	9.7	7
305	Adaptive Duty Cycling in Sensor Networks With Energy Harvesting Using Continuous-Time Markov Chain and Fluid Models. IEEE Journal on Selected Areas in Communications, 2015, 33, 2687-2700.	9.7	30
306	The Two-User Gaussian Interference Channel With Energy Harvesting Transmitters: Energy Cooperation and Achievable Rate Region. IEEE Transactions on Communications, 2015, 63, 4551-4564.	4.9	11
307	An Image Sensor With Joint Sensing and Energy Harvesting Functions. IEEE Sensors Journal, 2015, 15, 902-916.	2.4	17
308	Optimal Radius for Connectivity in Duty-Cycled Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2015, 11, 1-37.	2.3	67
309	When sensing goes pervasive. Pervasive and Mobile Computing, 2015, 17, 175-183.	2.1	24
310	Discrete-Rate Adaptation and Selection in Energy Harvesting Wireless Systems. IEEE Transactions on Wireless Communications, 2015, 14, 219-229.	6.1	16

#	Article	IF	Citations
311	Low-Power Reconfigurable Miniature Sensor Nodes for Condition Monitoring. International Journal of Parallel Programming, 2015, 43, 3-23.	1.1	6
312	Adaptive Rectifier Driven by Power Intake Predictors for Wind Energy Harvesting Sensor Networks. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 471-482.	3.7	57
313	A Surface Acoustic Wave Passive and Wireless Sensor for Magnetic Fields, Temperature, and Humidity. IEEE Sensors Journal, 2015, 15, 453-462.	2.4	48
314	Device and operation mechanism for non-beacon IEEE802.15.4/Zigbee nodes running on harvested energy. Ad Hoc Networks, 2015, 26, 50-68.	3.4	4
315	Estimation of supercapacitor energy using a linear capacitance for applications in wireless sensor networks. Journal of Power Sources, 2015, 275, 498-505.	4.0	22
316	Energy harvesting from atmospheric variations â€“ Theory and test. Renewable Energy, 2015, 74, 528-535.	4.3	15
317	A study of supercapacitor charge redistribution for applications inÂenvironmentally powered wireless sensor nodes. Journal of Power Sources, 2015, 273, 223-236.	4.0	35
318	Energy management in Wireless Sensor Networks: A survey. Computers and Electrical Engineering, 2015, 41, 159-176.	3.0	182
319	Optimal Partial Relaying for Energy-Harvesting Wireless Networks. IEEE/ACM Transactions on Networking, 2016, 24, 113-122.	2.6	32
320	What does quality-aware data collection really achieve in energy harvesting wireless sensor networks?. International Journal of Sensor Networks, 2016, 22, 1.	0.2	0
321	Optimized Energy Harvesting, Cluster-Head Selection and Channel Allocation for IoTs in Smart Cities. Sensors, 2016, 16, 2046.	2.1	17
322	Radio Frequency Energy Harvesting - Sources and Techniques. , 2016, , .		10
323	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
324	A Dual-Band Antenna for RF Energy Harvesting Systems in Wireless Sensor Networks. Journal of Sensors, 2016, 2016, 1-8.	0.6	45
325	Adaptive Power Allocation and Splitting with Imperfect Channel Estimation in Energy Harvesting Based Self-Organizing Networks. Mobile Information Systems, 2016, 2016, 1-7.	0.4	2
326	A High-Efficiency Wind Energy Harvester for Autonomous Embedded Systems. Sensors, 2016, 16, 327.	2.1	20
327	Maximum Data Collection Rate Routing Protocol Based on Topology Control for Rechargeable Wireless Sensor Networks. Sensors, 2016, 16, 1201.	2.1	26
328	Distance-Based and Low Energy Adaptive Clustering Protocol for Wireless Sensor Networks. PLoS ONE, 2016, 11, e0161340.	1.1	24

#	Article	IF	Citations
329	Power Management in Supercapacitor-Based Wireless Sensor Nodes. , 2016, , .		15
330	Efficient Wireless Power Transfer in Software-Defined Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 7409-7420.	2.4	70
331	Configurable impedance matching to maximise power extraction for enabling self-powered system based-on photovoltaic cells. Electronic Materials Letters, 2016, 12, 545-550.	1.0	2
332	Cooperative Wireless Energy Harvesting and Spectrum Sharing in 5G Networks. IEEE Access, 2016, 4, 3647-3658.	2.6	63
333	Energy harvesting for the Internet-of-Things: Measurements and probability models. , 2016, , .		7
334	Linking the Environment, the Battery, andÂtheÂApplication in Energy Harvesting Wireless Sensor Networks. Lecture Notes in Computer Science, 2016, , 215-228.	1.0	1
335	Throughput of a cooperative energy harvesting secondary user in cognitive radio networks. Transactions on Emerging Telecommunications Technologies, 2016, 27, 1365-1379.	2.6	7
336	Transmission probability analysis of energy harvesting enabled 802.11 protocol. , 2016, , .		6
337	Energy harvesting in wireless sensor networks: A survey. , 2016, , .		56
338	Wireless communication: Data transfer with optimal energy harvesting. , 2016, , .		0
339	Redesigning software and systems for non-volatile processors on self-powered devices. , 2016, , .		13
340	An all-digital receiver for low power, low bit-rate applications using simultaneous wireless information and power transmission. , 2016, , .		4
341	Robust Relay Beamforming in Device-to-Device Networks with Energy Harvesting Constraints. , 2016, , .		7
342	Relay Selection for Energy-Harvesting Relays with Short-Term Energy Storage. , 2016, , .		1
343	Energy Harvesting-Aware Distributed Queuing Access for Wireless Machine-to-Machine Networks. , 2016, , .		5
344	Using data prediction techniques to reduce data transmissions in the IoT. , 2016, , .		12
345	Opportunistic Routing in Large-Scale Energy Harvesting Sensor Networks. , 2016, , .		4
346	Possibility of harvesting Vibration energy from power producing devices: A review. , 2016, , .		4

#	Article	IF	Citations
347	Adaptive Forward Error Correction Scheme to Improve Data Reliability in Solar-Powered Wireless Sensor Networks. , 2016, , .		2
348	Data Distribution in IoT Networks with Estimation of Packet Error Rate. , 2016, , .		6
349	Energy-aware data aggregation scheme for energy-harvesting wireless sensor networks. , 2016, , .		10
350	Feasibility and fundamental limits of energy-harvesting based M2M communications. , 2016, , .		6
351	Energy Neutral Activity Monitoring: Wearables Powered by Smart Inductive Charging Surfaces. , 2016, , .		8
353	Decentralized detection in energy harvesting wireless sensor networks. , 2016, , .		3
354	Stability analysis for multi-user cooperative cognitive radio network with energy harvesting. , 2016, , .		0
355	Efficient Scheduling Strategy for Mobile Charger in Wireless Rechargeable Sensor Networks. , 2016, , .		0
356	Combined power extraction with adaptive power management module for increased piezoelectric energy harvesting to power wireless sensor nodes. , 2016, , .		7
357	Value-Based Task Scheduling for Nonvolatile Processor-Based Embedded Devices. , 2016, , .		11
358	Deploying autonomous sensors in a substation area using energy harvesting and wireless transfer of energy. , 2016, , .		4
359	Circuital analysis of coaxial fed rectangular and U-slot patch antenna. , 2016, , .		2
360	Energy Harvesting Wireless Sensor Networks: From Characterization to Duty Cycle Dimensioning. , 2016, , .		2
361	On Outage Probability for Two-Way Relay Networks With Stochastic Energy Harvesting. IEEE Transactions on Communications, 2016, 64, 1901-1915.	4.9	31
362	L-MAC: A wake-up time self-learning MAC protocol for wireless sensor networks. Computer Networks, 2016, 105, 33-46.	3.2	36
363	Optimal Energy-Bandwidth Allocation for Energy-Harvesting Networks in Multiuser Fading Channels. IEEE Journal on Selected Areas in Communications, 2016, 34, 1565-1577.	9.7	15
364	Wireless-Powered Cooperative Communications: Power-Splitting Relaying With Energy Accumulation. IEEE Journal on Selected Areas in Communications, 2016, 34, 969-982.	9.7	55
365	Hybrid wireless sensor networks: a reliability, cost and energyâ€aware approach. IET Wireless Sensor Systems, 2016, 6, 42-48.	1.3	38

#	Article	IF	Citations
366	Position estimation of RFID-based sensors using SAW compressive receivers. Sensors and Actuators A: Physical, 2016, 244, 277-284.	2.0	11
367	Energy harvesting in vehicular networks: a contemporary survey. IEEE Wireless Communications, 2016, 23, 70-77.	6.6	65
368	Optimal Reliability in Energy Harvesting Industrial Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2016, 15, 5399-5413.	6.1	68
369	Energy Harvesting and Wireless Transfer in Sensor Network Applications. ACM Transactions on Sensor Networks, 2016, 12, 1-40.	2.3	104
370	Preliminary design for sustainable BLE Beacons powered by solar panels. , 2016, , .		6
371	A New Energy Prediction Algorithm for Energy-Harvesting Wireless Sensor Networks With Q-Learning. IEEE Access, 2016, 4, 5755-5763.	2.6	98
372	Performance analysis of wireless sensor transmission with RF energy harvesting. , 2016, , .		1
373	Watermill principle applied to energy harvesting for sensor nodes in underground environments. , 2016, , .		1
374	Data retrieval time for energy-harvesting wireless sensor networks. Ad Hoc Networks, 2016, 53, 32-40.	3.4	5
375	Wireless-Powered Communications With Non-Orthogonal Multiple Access. IEEE Transactions on Wireless Communications, 2016, 15, 8422-8436.	6.1	227
376	Energy harvesting-aware contention tree-based access for wireless Machine-to-Machine networks. , 2016, , .		5
377	Energy harvesting for wireless sensor networks: applications and challenges in smart grid. International Journal of Sensor Networks, 2016, 21, 226.	0.2	17
378	Lifetime maximization for sensor networks with wireless energy transfer. , 2016, , .		14
379	A study of the performance of solar cells for indoor autonomous wireless sensors. , 2016, , .		12
380	Dynamic Computation Offloading for Mobile-Edge Computing With Energy Harvesting Devices. IEEE Journal on Selected Areas in Communications, 2016, 34, 3590-3605.	9.7	1,285
381	Neighborhood View Consistency in Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2016, 12, 1-41.	2.3	2
382	A novel caching mechanism for Internet of Things (IoT) sensing service with energy harvesting. , 2016, , .		50
383	Distributed optimization in energy harvesting sensor networks with dynamic in-network data processing. , 2016, , .		33

#	Article	IF	Citations
384	Optimal transmission period for improved sink-based data collection in energy harvesting wireless sensor networks. , 2016, , .		2
385	Power Waveforming: Wireless Power Transfer Beyond Time Reversal. IEEE Transactions on Signal Processing, 2016, 64, 5819-5834.	3.2	36
386	Distribution of decentralized optimization convergence bounds in energy harvesting wireless sensor networks. Transactions on Emerging Telecommunications Technologies, 2016, 27, 1580-1592.	2.6	0
387	Recent Advances in Energy-Efficient Routing Protocols for Wireless Sensor Networks: A Review. IEEE Access, 2016, 4, 5673-5686.	2.6	144
388	Optimal aging-aware channel access control for wireless networks with energy harvesting. , 2016, , .		3
389	Energy management algorithm for solarâ€powered energy harvesting wireless sensor node for Internet of Things. IET Communications, 2016, 10, 1508-1521.	1.5	46
390	On Wireless Power Transfer and Max Flow in Rechargeable Wireless Sensor Networks. IEEE Access, 2016, 4, 4155-4167.	2.6	20
391	Fuzzy power management for energy harvesting Wireless Sensor Nodes. , 2016, , .		23
392	Pedometers Without Batteries: An Energy Harvesting Shoe. IEEE Sensors Journal, 2016, , 1-1.	2.4	14
393	PSR-based ANC protocol in energy harvesting bidirectional networks. , 2016, , .		1
394	An adaptive clustering routing algorithm for energy harvesting-wireless sensor networks. , 2016, , .		8
395	Trade-Offs in Wireless Powered Communications. , 2016, , 185-209.		2
396	Diphase: Characterizing Packet Delay in Multi-Source Energy Harvesting Systems. IEEE Transactions on Communications, 2016, 64, 3808-3819.	4.9	2
397	Utility-Optimal Resource Management and Allocation Algorithm for Energy Harvesting Cognitive Radio Sensor Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 3552-3565.	9.7	155
398	Wireless Power Transfer for Distributed Estimation in Wireless Passive Sensor Networks. IEEE Transactions on Signal Processing, 2016, 64, 5382-5395.	3.2	30
399	Efficient Sleep Scheduling Algorithm for Target Tracking in Double-Storage Energy Harvesting Sensor Networks. International Journal of Distributed Sensor Networks, 2016, 12, 4134735.	1.3	5
400	Energy harvesting with two parallel pinned piezoelectric membranes in fluid flow. Journal of Fluids and Structures, 2016, 65, 381-397.	1.5	15
401	A Geometric Analysis of the AWGN Channel With a <inline-formula> <tex-math notation="LaTeX">$(sigma , ho)$ </tex-math> </inline-formula>-Power Constraint. IEEE Transactions on Information Theory, 2016, 62, 4413-4438.	1.5	16

#	Article	IF	Citations
402	A Survey About Prediction-Based Data Reduction in Wireless Sensor Networks. ACM Computing Surveys, 2017, 49, 1-35.	16.1	66
403	Energy Harvesting for Throughput Enhancement of Cooperative Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2016, 12, 1962397.	1.3	4
404	Differentiated Access Mechanism in Cognitive Radio Networks with Energy-Harvesting Nodes. Wireless Personal Communications, 2016, 90, 2051-2071.	1.8	0
405	DEARER: A Distance-and-Energy-Aware Routing With Energy Reservation for Energy Harvesting Wireless Sensor Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 3798-3813.	9.7	46
406	Outage Analysis of Wireless-Powered Relaying MIMO Systems with Non-Linear Energy Harvesters and Imperfect CSI. IEEE Access, 2016, 4, 7046-7053.	2.6	72
407	Stochastic Online Control for Energy-Harvesting Wireless Networks With Battery Imperfections. IEEE Transactions on Wireless Communications, 2016, 15, 8437-8448.	6.1	10
408	Improving Fairness with Harvesting-Rate Adapted Polling for Energy Harvesting Wireless Sensor Networks. IEICE Transactions on Communications, 2016, E99.B, 2036-2046.	0.4	2
409	A survey on hardware design issues in RF energy harvesting for wireless sensor networks (WSN). , 2016, , .		11
410	A QoS-constrained transmission strategy for energy Harvesting transmitter. , 2016, , .		0
411	A predictive retransmission scheme for cooperative routing in intermittently connected sensor networks. , 2016, , .		1
412	A 7.5â€¼W 0.08â€mm² singleâ€ended SC deltaâ€sigma ADC for acoustic sensor applications. International Journal of Circuit Theory and Applications, 2016, 44, 1173-1185.	1.3	4
413	Tiny Piezoelectric Harvesters: Principles, Constraints, and Power Conversion. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 639-649.	3.5	53
414	A study of the electric power generation properties of a lead zirconate titanate piezoelectric ceramic. Ceramics International, 2016, 42, 14049-14060.	2.3	9
415	Medium access control protocols for wireless sensor networks with ambient energy. , 2016, , .		0
416	Feature selection for performance characterization in multi-hop wireless sensor networks. Ad Hoc Networks, 2016, 49, 70-89.	3.4	15
417	Energy-efficient model for indoor localization process based on wireless sensor networks. , 2016, , .		4
418	QoS Provisioning Based Resource Allocation for Energy Harvesting Systems. IEEE Transactions on Wireless Communications, 2016, , 1-1.	6.1	11
419	Precise analysis of compressive strain effects on electric power generation properties of a lead zirconate titanate piezoelectric ceramic. Journal of Advanced Ceramics, 2016, 5, 35-39.	8.9	4

#	Article	IF	Citations
420	Priority-Based Data Gathering Framework in UAV-Assisted Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 5785-5794.	2.4	143
421	A task scheduling algorithm based on supercapacitor charge redistribution and energy harvesting for wireless sensor nodes. Journal of Energy Storage, 2016, 6, 186-194.	3.9	29
422	The future of ultra-wideband localization in RFID. , 2016, , .		25
423	Maintaining Large-Scale Rechargeable Sensor Networks Perpetually via Multiple Mobile Charging Vehicles. ACM Transactions on Sensor Networks, 2016, 12, 1-26.	2.3	94
424	A survey of IEEE 802.15.4 effective system parameters for wireless body sensor networks. International Journal of Communication Systems, 2016, 29, 1269-1292.	1.6	18
425	Relaying Strategies for Wireless-Powered MIMO Relay Networks. IEEE Transactions on Wireless Communications, 2016, 15, 6033-6047.	6.1	39
426	Area Model and Dimensioning Guidelines of Multisource Energy Harvesting for Nanoâ€“Micro Interface. IEEE Internet of Things Journal, 2016, 3, 18-26.	5.5	6
427	Mobile Energy Sharing Networks: Performance Analysis and Optimization. IEEE Transactions on Vehicular Technology, 2016, 65, 3519-3535.	3.9	25
428	On the coexistence of a primary user with an energy harvesting secondary user: a case of cognitive cooperation. Wireless Communications and Mobile Computing, 2016, 16, 166-176.	0.8	9
429	New Formula for Conversion Efficiency of RF EH and Its Wireless Applications. IEEE Transactions on Vehicular Technology, 2016, 65, 9410-9414.	3.9	43
430	A Reinforcement Learning-Based Sleep Scheduling Algorithm for Desired Area Coverage in Solar-Powered Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 2763-2774.	2.4	75
431	QoS-Aware Energy Management in Body Sensor Nodes Powered by Human Energy Harvesting. IEEE Sensors Journal, 2016, 16, 542-549.	2.4	88
432	Energy harvesting in wireless sensor networks: A comprehensive review. Renewable and Sustainable Energy Reviews, 2016, 55, 1041-1054.	8.2	915
433	Distributed power-source-aware routing in wireless sensor networks. Wireless Networks, 2016, 22, 1381-1399.	2.0	12
434	A fully-decentralized semantic mechanism for autonomous wireless sensor nodes. Journal of Network and Computer Applications, 2016, 61, 142-160.	5.8	9
435	File Transfer Between Charging Stations Goes Infrastructureless: A Codeâ€“Delay Tradeoff. IEEE Transactions on Vehicular Technology, 2016, 65, 8682-8695.	3.9	1
436	Rare Event Detection and Propagation in Wireless Sensor Networks. ACM Computing Surveys, 2016, 48, 1-22.	16.1	38
437	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

#	Article	IF	Citations
438	CMOS Indoor Light Energy Harvesting System for Wireless Sensing Applications: An Overview. IFIP Advances in Information and Communication Technology, 2016, , 178-194.	0.5	2
439	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
440	Solar Power Prediction Assisted Intra-task Scheduling for Nonvolatile Sensor Nodes. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2016, 35, 724-737.	1.9	26
441	Graceful Performance Modulation for Power-Neutral Transient Computing Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2016, 35, 738-749.	1.9	55
442	Performance of Wireless Powered Amplify and Forward Relaying Over Nakagami- Fading Channels With Nonlinear Energy Harvester. IEEE Communications Letters, 2016, 20, 672-675.	2.5	145
443	Efficient Scheduling of Multiple Mobile Chargers for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 7670-7683.	3.9	87
444	Optimal Scheduling and Beamforming in Relay Networks With Energy Harvesting Constraints. IEEE Transactions on Wireless Communications, 2016, 15, 1226-1238.	6.1	31
445	A low-cost UWB sensor node powered by a piezoelectric harvester or solar cells. Sensors and Actuators A: Physical, 2016, 239, 127-136.	2.0	18
446	Wireless Energy Harvesting in a Cognitive Relay Network. IEEE Transactions on Wireless Communications, 2016, 15, 2498-2508.	6.1	150
447	Transmit Power Minimization for Wireless Networks With Energy Harvesting Relays. IEEE Transactions on Communications, 2016, 64, 987-1000.	4.9	19
448	Grid Energy Consumption and QoS Tradeoff in Hybrid Energy Supply Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 3573-3586.	6.1	24
449	Throughput optimisation for energy harvesting transmitter with partial instantaneous channel state information and finiteâ€alphabet inputs. IET Communications, 2016, 10, 435-442.	1.5	2
450	Effect of CCI on WPC With Time-Division Energy and Information Transmission. IEEE Wireless Communications Letters, 2016, 5, 168-171.	3.2	11
451	Characterization of supercapacitor models for analyzing supercapacitors connected to constant power elements. Journal of Power Sources, 2016, 312, 165-171.	4.0	34
452	Design, analysis, and experimental studies of a novel PVDF-based piezoelectric energy harvester with beating mechanisms. Sensors and Actuators A: Physical, 2016, 238, 317-328.	2.0	38
453	Aging Aware Random Channel Access for Battery-Powered Wireless Networks. IEEE Wireless Communications Letters, 2016, 5, 176-179.	3.2	7
454	Wireless Charging Technologies: Fundamentals, Standards, and Network Applications. IEEE Communications Surveys and Tutorials, 2016, 18, 1413-1452.	24.8	745
455	Transmission With Energy Harvesting Nodes in Frequency-Selective Fading Channels. IEEE Transactions on Wireless Communications, 2016, 15, 1642-1656.	6.1	15

#	Article	IF	Citations
456	Energy Harvesting Electronic Systems. , 2016, , 7-42.		3
457	Optimal scheduling for energy harvesting mobile sensing devices. Computer Communications, 2016, 75, 62-70.	3.1	7
458	Secure Communication With a Wireless-Powered Friendly Jammer. IEEE Transactions on Wireless Communications, 2016, 15, 401-415.	6.1	117
459	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
460	Energy harvesting and battery technologies for powering wireless sensor networks. , 2016, , 25-38.		24
461	Voltage Step-up Circuits. , 2016, , 73-115.		0
462	Advances in Energy Harvesting Communications: Past, Present, and Future Challenges. IEEE Communications Surveys and Tutorials, 2016, 18, 1384-1412.	24.8	453
463	Low-Cost Localization for Multihop Heterogeneous Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2016, 15, 472-484.	6.1	58
464	Distributed Opportunistic Scheduling for Energy Harvesting Based Wireless Networks: A Two-Stage Probing Approach. IEEE/ACM Transactions on Networking, 2016, 24, 1618-1631.	2.6	22
465	Power Electronic Circuits for Magnetic Energy Harvesters. IEEE Transactions on Power Electronics, 2016, 31, 270-279.	5.4	42
466	On Throughput Maximization of Time Division Multiple Access With Energy Harvesting Users. IEEE Transactions on Vehicular Technology, 2016, 65, 2457-2470.	3.9	28
467	Routing protocol for k-anycast communication in rechargeable wireless sensor networks. Computer Standards and Interfaces, 2016, 43, 12-20.	3.8	17
468	Outage Analysis and Optimization in Single- and Multiuser Wireless Energy Harvesting Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 1464-1476.	3.9	17
469	Optimal Cooperative Power Allocation for Energy-Harvesting-Enabled Relay Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 2424-2434.	3.9	57
470	Wireless sensor network virtualization: A survey. IEEE Communications Surveys and Tutorials, 2016, 18, 553-576.	24.8	254
471	Power allocation in the energy harvesting fullâ€duplex Gaussian relay channels. International Journal of Communication Systems, 2017, 30, e2903.	1.6	4
472	Researches on the dynamic data routing and recharging schemes for rechargeable wireless sensor networks deployed in 3-dimensional spaces. Wireless Networks, 2017, 23, 1035-1044.	2.0	1
473	An improved immune system-inspired routing recovery scheme for energy harvesting wireless sensor networks. Soft Computing, 2017, 21, 5893-5904.	2.1	7

#	Article	IF	Citations
474	Power Control of an Energy Harvesting Sensor for Remote State Estimation. IEEE Transactions on Automatic Control, 2017, 62, 277-290.	3.6	61
475	Energy adaptive MAC for wireless sensor networks with RF energy transfer: algorithm, analysis, and implementation. Telecommunication Systems, 2017, 64, 293-307.	1.6	9
476	Quality of service optimization in solar cells-based energy harvesting wireless sensor networks. Energy Efficiency, 2017, 10, 331-357.	1.3	9
477	Pilot-Based Channel Estimation for AF Relaying Using Energy Harvesting. IEEE Transactions on Vehicular Technology, 2017, 66, 6877-6886.	3.9	13
478	Perspective Paperâ€"Can AC Computing Be an Alternative for Wirelessly Powered IoT Devices?. IEEE Embedded Systems Letters, 2017, 9, 13-16.	1.3	23
479	Distributed User Association in Energy Harvesting Small Cell Networks: A Probabilistic Bandit Model. IEEE Transactions on Wireless Communications, 2017, 16, 1549-1563.	6.1	26
480	Data Backup Optimization for Nonvolatile SRAM in Energy Harvesting Sensor Nodes. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 1660-1673.	1.9	20
481	A Survey of Network Lifetime Maximization Techniques in Wireless Sensor Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 828-854.	24.8	482
482	Performance Characterization of Machine-to-Machine Networks With Energy Harvesting and Social-Aware Relays. IEEE Access, 2017, 5, 13297-13307.	2.6	15
483	Maximizing Proportional Fairness in Wireless Powered Communications. IEEE Wireless Communications Letters, 2017, 6, 202-205.	3.2	53
484	On efficient message passing in energy harvesting based distributed system. , 2017, , .		2
485	Energy level-based efficient wireless power and information transfer in sensor networks. , 2017, , .		3
486	Energy-Aware Constrained Relay Node Deployment for Sustainable Wireless Sensor Networks. IEEE Transactions on Sustainable Computing, 2017, 2, 30-42.	2.2	46
487	Capacity Region of Gaussian Multiple-Access Channels With Energy Harvesting and Energy Cooperation. IEEE Access, 2017, 5, 1570-1578.	2.6	13
488	Stack-Size Sensitive On-Chip Memory Backup for Self-Powered Nonvolatile Processors. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 1804-1816.	1.9	24
489	Triboelectric energy harvester using frequency up-conversion to generate from extremely low frequency strain inputs. , 2017, , .		1
490	Communications and Signals Design for Wireless Power Transmission. IEEE Transactions on Communications, 2017, 65, 2264-2290.	4.9	353
491	Joint Downlink/Uplink Design for Wireless Powered Networks With Interference. IEEE Access, 2017, 5, 1534-1547.	2.6	52

#	Article	IF	Citations
492	Energy-Aware Approaches for Energy Harvesting Powered Wireless Sensor Nodes. IEEE Sensors Journal, 2017, 17, 2165-2173.	2.4	156
493	Performance Improvement for RF Energy-Harvesting Relays via Relay Selection. IEEE Transactions on Vehicular Technology, 2017, 66, 8482-8494.	3.9	18
494	Heterogeneous Statistical QoS Provisioning Over Wireless Powered Sensor Networks. IEEE Access, 2017, 5, 7910-7921.	2.6	19
495	On the Design of Dual Energy Harvesting Communication Links With Retransmission. IEEE Transactions on Wireless Communications, 2017, 16, 4079-4093.	6.1	13
496	Electric-Field Energy Harvesting in Wireless Networks. IEEE Wireless Communications, 2017, 24, 34-41.	6.6	44
497	Energy-adaptive data compression and transmission range determination for energy-harvesting wireless sensor networks. , 2017, , .		2
498	Harvesting and Energy aware Adaptive Sampling Algorithm for guaranteeing self-sustainability in Wireless Sensor Networks. , 2017, , .		3
499	Throughput Maximization with an Energy Outage Constraint for Energy Harvesting Links. , 2017, , .		3
501	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
502	Wireless Energy Harvesting and Communications: Limits and Reliability. , 2017, , .		3
503	Contention Tree-Based Access for Wireless Machine-to-Machine Networks With Energy Harvesting. IEEE Transactions on Green Communications and Networking, 2017, 1, 223-234.	3.5	13
504	Wireless energy harvesting using time reversal technique: An experimental study with numerical verification. Journal of Intelligent Material Systems and Structures, 2017, 28, 2705-2716.	1.4	16
505	Energy-aware data compression and transmission range control for energy-harvesting wireless sensor networks. International Journal of Distributed Sensor Networks, 2017, 13, 155014771770578.	1.3	4
506	Decentralized Hypothesis Testing in Energy Harvesting Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2017, 65, 4862-4873.	3.2	33
507	A 2.6 $mu ext{W}$ â€“1.2 mW Autonomous Electromagnetic Vibration Energy Harvester Interface IC with Conduction-Angle-Controlled MPPT and up to 95% Efficiency. IEEE Journal of Solid-State Circuits, 2017, 52, 2448-2462.	3.5	28
508	Distributed User Association in Energy Harvesting Small Cell Networks: An Exchange Economy With Uncertainty. IEEE Transactions on Green Communications and Networking, 2017, 1, 294-308.	3.5	12
509	Strain Energy Harvesting Powered Wireless Sensor System Using Adaptive and Energy-Aware Interface for Enhanced Performance. IEEE Transactions on Industrial Informatics, 2017, 13, 3006-3016.	7.2	21
510	Viability Bounds of M2M Communication Using Energy-Harvesting and Passive Wake-Up Radio. IEEE Access, 2017, 5, 27868-27878.	2.6	15

#	Article	IF	Citations
511	IoT-based continuous glucose monitoring system: A feasibility study. Procedia Computer Science, 2017, 109, 327-334.	1.2	89
512	A Limited Energy Consumption Model for P2P Wireless Sensor Networks. Wireless Personal Communications, 2017, 96, 6299-6324.	1.8	5
513	DMS-Based Energy Optimizations for Clustered WSNs. Transactions on Embedded Computing Systems, 2017, 16, 1-28.	2.1	0
514	Exploiting Interference for Energy Harvesting: A Survey, Research Issues, and Challenges. IEEE Access, 2017, 5, 10403-10421.	2.6	107
515	A time-splitting cooperative spectrum sharing amplify-and-forward relaying protocol with energy harvesting cognitive user. , 2017, , .		1
516	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
517	Energy harvesting in wireless sensor network with efficient landmark selection using mobile actuator. , 2017, , .		2
518	An energy prediction algorithm for wind-powered wireless sensor networks with energy harvesting. Energy, 2017, 139, 1275-1280.	4.5	42
519	Feasibility and Fundamental Limits of Energy-Harvesting Based M2M Communications. International Journal of Wireless Information Networks, 2017, 24, 291-299.	1.8	10
520	Minimization of Transmission Completion Time in Wireless Powered Communication Networks. IEEE Internet of Things Journal, 2017, 4, 1671-1683.	5.5	58
521	Data Backlog Analysis in Energy Harvesting Communication Systems. IEEE Access, 2017, , 1-1.	2.6	7
522	On Outage of WPC System With Relay Selection Over Nakagami- m Fading Channels. IEEE Transactions on Vehicular Technology, 2017, 66, 8590-8594.	3.9	20
523	Electric-Field Energy Harvesting From Lighting Elements for Battery-Less Internet of Things. IEEE Access, 2017, 5, 7423-7434.	2.6	34
524	Markov fluid queue model of an energy harvesting IoT device with adaptive sensing. Performance Evaluation, 2017, 111, 1-16.	0.9	35
525	Experimental Validation of Energy Harvesting-System Availability Improvement Through Battery Heating. IEEE Sensors Journal, 2017, 17, 3497-3506.	2.4	4
526	Energy-aware determination of compression for low latency in solar-powered wireless sensor networks. International Journal of Distributed Sensor Networks, 2017, 13, 155014771769416.	1.3	5
527	Active energy management for harvesting enabled wireless sensor networks. , 2017, , .		6
528	Performance of Analog Network Coding Based Two-Way EH Relay With Beamforming. IEEE Transactions on Communications, 2017, 65, 1518-1535.	4.9	28

#	Article	IF	Citations
529	Energy Harvesting in Nanonetworks. Modeling and Optimization in Science and Technologies, 2017, , 319-347.	0.7	2
530	Event-Triggered State Estimation With an Energy Harvesting Sensor. IEEE Transactions on Automatic Control, 2017, 62, 4768-4775.	3.6	45
531	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
532	Barrier coverage in energy harvesting sensor networks. Ad Hoc Networks, 2017, 56, 72-83.	3.4	17
533	Cognitive Radio Sensor Network With Green Power Beacon. IEEE Sensors Journal, 2017, 17, 1549-1561.	2.4	28
534	Distributed sampling rate allocation for data quality maximization in rechargeable sensor networks. Journal of Network and Computer Applications, 2017, 80, 1-9.	5.8	16
535	Joint Power Waveforming and Beamforming for Wireless Power Transfer. IEEE Transactions on Signal Processing, 2017, 65, 6409-6422.	3.2	14
536	Adaptive Power Management in Solar Energy Harvesting Sensor Node Using Reinforcement Learning. Transactions on Embedded Computing Systems, 2017, 16, 1-21.	2.1	45
537	Energy harvesting wireless sensors for smart cities. , 2017, , .		7
538	Energy Conversion and Management Circuit of Hybrid Energy Harvesting for Vibrations and Temperature Differences. , 2017, , .		0
539	Reliability or Sustainability. ACM Transactions on Sensor Networks, 2017, 13, 1-27.	2.3	6
540	Energy neutral protocol based on hierarchical routing techniques for energy harvesting wireless sensor network. AIP Conference Proceedings, 2017, , .	0.3	2
541	Cooperative in-network computation in energy harvesting device clouds. Sustainable Computing: Informatics and Systems, 2017, 16, 106-116.	1.6	10
542	Energy Harvesting Communications Under Energy Underflow Constraints. IEEE Communications Letters, 2017, 21, 2646-2649.	2.5	9
543	Flexible wearable sensor nodes with solar energy harvesting. , 2017, 2017, 3273-3276.		12
544	Review and Classification of Multichannel MAC Protocols for Low-Power and Lossy Networks. IEEE Access, 2017, 5, 19536-19561.	2.6	18
545	Maximizing Forward Progress with Cache-aware Backup for Self-powered Non-volatile Processors. , 2017, , .		7
546	A historical harvested energy assigning mechanism for multi-hop multi-relay energy harvesting wireless sensor networks. , 2017, , .		2

#	Article	IF	Citations
547	Throughput maximization for wireless powered communication. , 2017, , .		2
548	Rate-energy tradeoff in simultaneous wireless information and power transfer over Rayleigh block fading channel. , 2017, , .		1
549	Energy efficiency impact of transient node failures when using RPL. , 2017, , .		7
550	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
551	A sandwiched piezoelectric transducer with flex end-caps for energy harvesting in large force environments. Journal Physics D: Applied Physics, 2017, 50, 345501.	1.3	48
552	Optimal energy beamforming and data routing for immortal wireless sensor networks. , 2017, , .		7
553	Approximation Algorithms for Charging Reward Maximization in Rechargeable Sensor Networks via a Mobile Charger. IEEE/ACM Transactions on Networking, 2017, 25, 3161-3174.	2.6	100
554	A Survey of Wearable Devices and Challenges. IEEE Communications Surveys and Tutorials, 2017, 19, 2573-2620.	24.8	479
555	An experimental study of ultra-low power wireless sensor-based autonomous energy harvesting system. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	46
556	Efficient Energy Transport in 60 Ghz for Wireless Industrial Sensor Networks. IEEE Wireless Communications, 2017, 24, 143-149.	6.6	18
557	Energy-aware morphable cache management for self-powered non-volatile processors. , 2017, , .		6
558	Comparative study on storing energy for (Ba,Zr)TiO 3 and CuO-(Ba,Zr)TiO 3 ceramics for piezoelectric energy harvesting applications. Ceramics International, 2017, 43, S649-S654.	2.3	8
559	Online Learning for Offloading and Autoscaling in Energy Harvesting Mobile Edge Computing. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 361-373.	4.9	289
560	Adaptive sensing and compression rate selection scheme for energy-harvesting wireless sensor networks. International Journal of Distributed Sensor Networks, 2017, 13, 155014771771362.	1.3	5
561	Energy states aided relay selection and optimal power allocation for cognitive relaying networks. IET Communications, 2017, 11, 1045-1052.	1.5	5
562	Exploring Piezoelectric for Sound Wave as Energy Harvester. Energy Procedia, 2017, 105, 459-466.	1.8	18
563	Accurate Models of Energy Harvesting for Smart Environments. , 2017, , .		3
564	Joint node deployment and wireless energy transfer scheduling for immortal sensor networks. , 2017, , .		4

#	Article	IF	Citations
565	Wireless MEMS for smart grids. , 2017, , 239-258.		3
566	The Physics of Event-Driven IoT Systems. IEEE Design and Test, 2017, 34, 87-90.	1.1	3
567	Energy-Aware Topology Construction and Maintenance for Energy Harvesting Sensor Networks. Advances in Intelligent Systems and Computing, 2017, , 723-731.	0.5	1
568	Wireless-Powered Sensor Networks: How to Realize. IEEE Transactions on Wireless Communications, 2017, 16, 221-234.	6.1	87
569	A Stochastic Geometry Analysis of Large-Scale Cooperative Wireless Networks Powered by Energy Harvesting. IEEE Transactions on Communications, 2017, 65, 3343-3358.	4.9	12
570	A survey of energy-efficient context recognition systems using wearable sensors for healthcare applications. Pervasive and Mobile Computing, 2017, 37, 23-44.	2.1	94
571	On Nodes Placement in Energy Harvesting Wireless Sensor Networks for Coverage And Connectivity. IEEE Transactions on Industrial Informatics, 2017, 13, 27-36.	7.2	74
572	Energy Harvesting Based Green Heterogeneous Wireless Access for 5G. , 2017, , 475-502.		2
573	Energy Harvesting Wireless Sensor Node With Temporal Death: Novel Models and Analyses. IEEE/ACM Transactions on Networking, 2017, 25, 896-909.	2.6	36
574	Communication Reliability Analysis of Wireless Sensor Networks Using Phasedâ€Mission Model. Quality and Reliability Engineering International, 2017, 33, 823-837.	1.4	32
575	Energy-harvested management mechanism for wireless sensor networks. , 2017, , .		5
576	Solar Energy Harvesting Optimization for Wireless Sensor Networks. , 2017, , .		8
577	Secrecy Performance Analysis of Energy Harvesting Wireless Sensor Networks With a Friendly Jammer. IEEE Access, 2017, 5, 25196-25206.	2.6	47
578	Near-optimal energy allocation for self-powered wearable systems. , 2017, , .		15
579	Jointly optimal downlink/uplink design for wireless powered networks. , 2017, , .		4
580	Battery management for control systems with energy harvesting sensors. , 2017, , .		2
581	Energy Gatekeeper Architecture for Enabling Rapid Development of Energy-Harvesting Internet of Things. , 2017, , .		0
582	Improving energy usage in energy harvesting wireless sensor nodes using weather forecast. , 2017, , .		3

#	Article	IF	Citations
583	A Survey on Mobile Edge Computing: The Communication Perspective. IEEE Communications Surveys and Tutorials, 2017, 19, 2322-2358.	24.8	3,379
584	Development of an Indoor Photovoltaic Energy Harvesting Module for Autonomous Sensors in Building Air Quality Applications. IEEE Internet of Things Journal, 2017, 4, 2092-2103.	5.5	80
585	A thermoelectric energy harvesting system with bridgeless boost/buck-boost rectifier. , 2017, , .		1
586	Dynamic Cross-Layer Beamforming in Hybrid Powered Communication Systems With Harvest-Use-Trade Strategy. IEEE Transactions on Wireless Communications, 2017, 16, 8011-8025.	6.1	17
587	HELIOS: Outsourcing of Security Operations in Green Wireless Sensor Networks. , 2017, , .		2
588	Simultaneous Lightwave Information and Power Transfer (SLIPT) for Indoor IoT Applications. , 2017, , .		21
589	Outage analysis of a multihop cognitive network with energy harvesting from a primary cluster. , 2017, , .		1
590	Energy scheduling for optical channels with energy harvesting devices. , 2017, , .		3
591	Adaptive video coding selection scheme for solar-powered wireless video sensor networks. , 2017, , .		2
592	Asymptotically optimal scheduling for energy harvesting wireless sensor networks. , 2017, , .		8
593	Life time maximization in the Wireless Sensor Network with energy harvesting. , 2017, , .		1
594	Solar energy prediction for constrained IoT nodes based on public weather forecasts. , 2017, , .		26
595	Throughput of cognitive relay networks with energy-harvesting based primary user's interference. , 2017, , .		1
596	AP scheduling protocol for power beacon with directional antenna in Energy Harvesting Networks. , 2017, , .		6
597	Primary behaviourâ€based energy harvesting multihop cognitive radio network. IET Communications, 2017, 11, 2466-2475.	1.5	13
598	Hybrid Compressive Sensing for Delay-Efficient Sustainable Data Gathering. , 2017, , .		1
599	Conformable piezoelectric-foil for energy scavenging applications. , 2017, , .		1
600	How Many Hops Are Needed in Multi-Hop Energy Harvesting Wireless Networks. , 2017, , .		0

#	Article	IF	Citations
601	Ring-oscillator-based timing generator for ultralow-power applications. , 2017, , .		2
602	Graph-Based MDP to Mobile Source with Energy Harvesting in Delay Tolerant Networks System. , 2017, , .		3
603	Energy efficient AC computing methodology for wirelessly powered IoT devices. , 2017, , .		9
604	A new design of thermoelectric generator for health monitoring. , 2017, , .		0
605	Postdisaster User Location Maneuvering Method for Improving the QoE Guaranteed Service Time in Energy Harvesting Small Cell Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9410-9420.	3.9	32
606	Optimal packet scheduling for a piezoelectric energy harvesting node. , 2017, , .		0
607	Low-power consumption beacon recognition method to access wireless sensor networks. , 2017, , .		1
608	Riding the airways: Ultra-wideband ambient backscatter via commercial broadcast systems. , 2017, , .		40
609	Throughput maximization for wireless powered non-orthogonal multiple access networks with multiple antennas. , 2017, , .		3
610	Retention state-enabled and progress-driven energy management for self-powered nonvolatile processors. , 2017, , .		3
611	Statistical Models for Battery Recharge Time from RF Energy Scavengers in Generalized Wireless Fading Channels. , 2017, , .		2
612	An Energy Efficient Mechanism for Data Transmission and Environment Monitoring in Rechargeable WSN. , 2017, , .		0
613	Energy-Efficient Wireless Sensor Networks for Precision Agriculture: A Review. Sensors, 2017, 17, 1781.	2.1	414
614	Cooperative Non-Orthogonal Multiple Access with Energy Harvesting. Information (Switzerland), 2017, 8, 111.	1.7	9
615	Adaptive Data Aggregation and Compression to Improve Energy Utilization in Solar-Powered Wireless Sensor Networks. Sensors, 2017, 17, 1226.	2.1	22
616	Extending Wireless Rechargeable Sensor Network Life without Full Knowledge. Sensors, 2017, 17, 1642.	2.1	18
617	A Long-Distance RF-Powered Sensor Node with Adaptive Power Management for IoT Applications. Sensors, 2017, 17, 1732.	2.1	29
618	Two Hop Adaptive Vector Based Quality Forwarding for Void Hole Avoidance in Underwater WSNs. Sensors, 2017, 17, 1762.	2.1	14

#	Article	IF	Citations
619	Statistical-QoS Guaranteed Energy Efficiency Optimization for Energy Harvesting Wireless Sensor Networks. Sensors, 2017, 17, 1933.	2.1	6
620	Joint Resource Optimization for Cognitive Sensor Networks with SWIPT-Enabled Relay. Sensors, 2017, 17, 2093.	2.1	8
621	Average Throughput Performance of Myopic Policy in Energy Harvesting Wireless Sensor Networks. Sensors, 2017, 17, 2206.	2.1	9
622	Cluster Cooperation in Wireless-Powered Sensor Networks: Modeling and Performance Analysis. Sensors, 2017, 17, 2215.	2.1	5
623	Precoding Design and Power Allocation in Two-User MU-MIMO Wireless Ad Hoc Networks. Symmetry, 2017, 9, 247.	1.1	2
624	AH-MAC: Adaptive Hierarchical MAC Protocol for Low-Rate Wireless Sensor Network Applications. Journal of Sensors, 2017, 2017, 1-15.	0.6	19
625	Outage Probability Analysis in Power-Beacon Assisted Energy Harvesting Cognitive Relay Wireless Networks. Wireless Communications and Mobile Computing, 2017, 2017, 1-15.	0.8	6
626	Hybrid solar and radio frequency (RF) energy harvesting. , 2017, , .		10
627	Energy harvesting in IoT devices: A survey. , 2017, , .		36
628	Harvested Energy Prediction Schemes for Wireless Sensor Networks: Performance Evaluation and Enhancements. Wireless Communications and Mobile Computing, 2017, 2017, 1-14.	0.8	16
629	Softwarization of Mobile Network Functions towards Agile and Energy Efficient 5G Architectures: A Survey. Wireless Communications and Mobile Computing, 2017, 2017, 1-21.	0.8	16
630	Energy-Harvesting Low-Power Devices in Cyber-Physical Systems. , 2017, , 55-74.		2
631	Real-time scheduling of aperiodic tasks in energy harvesting devices. , 2017, , .		2
632	Capacity bounds on energy harvesting binary symmetric channels with finite battery. , 2017, , .		3
633	Optimal energy harvesting time and power allocation policy in CRN under security constraints from eavesdroppers. , 2017, , .		2
634	Maximizing satisfaction of the elderly via scheduling for mobile robot charger in health surveillance. , 2017, , .		0
635	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
636	A Survey of Energy Harvesting Technologies. , 2017, , .		3

#	Article	IF	Citations
637	Trilateration-Inspired Sensor Node Position Estimation for UAV-Assisted Microwave Wireless Power Transfer. SICE Journal of Control Measurement and System Integration, 2017, 10, 350-359.	0.4	2
638	Cooperative Wireless Powered Communication Networks With Interference Harvesting. IEEE Transactions on Vehicular Technology, 2018, 67, 3701-3705.	3.9	22
639	Compact Fast-Waking Light/Heat-Harvesting 0.18-<inline-formula> <tex-math notation="LaTeX">$muext{m}$ </tex-math> </inline-formula> CMOS Switched-Inductor Charger. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2024-2034.	3.5	6
640	Resource Allocation in Energy-Harvesting Sensor Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 585-598.	1.6	6
641	Outage Performance Analysis of Wireless Energy Harvesting Relay-Assisted Random Underlay Cognitive Networks. IEEE Internet of Things Journal, 2018, 5, 2691-2699.	5.5	57
642	Throughput in an Energy Harvesting Wireless Uplink. IEEE Sensors Journal, 2018, 18, 2617-2626.	2.4	2
643	Performance of Energy Harvesting Receivers With Power Optimization. IEEE Transactions on Communications, 2018, 66, 1309-1321.	4.9	5
644	Secrecy Analysis of Wireless-Powered Multi-Antenna Relaying System With Nonlinear Energy Harvesters and Imperfect CSI. IEEE Transactions on Green Communications and Networking, 2018, 2, 460-470.	3.5	44
645	Optimal-Stopping Spectrum Sensing in Energy Harvesting Cognitive Radio Systems. Journal of Signal Processing Systems, 2018, 90, 807-825.	1.4	0
646	Performance analysis of underlay cooperative cognitive full-duplex networks with energy-harvesting relay. Computer Communications, 2018, 122, 9-19.	3.1	18
647	Towards Energy-Efficient Wireless Networking in the Big Data Era: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 303-332.	24.8	70
648	Lyapunov Optimized Cooperative Communications With Stochastic Energy Harvesting Relay. IEEE Internet of Things Journal, 2018, 5, 1323-1333.	5.5	30
649	Optimal Fairness-Aware Time and Power Allocation in Wireless Powered Communication Networks. IEEE Transactions on Communications, 2018, 66, 3122-3135.	4.9	25
650	Performance Analysis of Energy Harvesting Multi-Antenna Relay Networks With Different Antenna Selection Schemes. IEEE Access, 2018, 6, 5654-5665.	2.6	32
651	Energy Scheduling for Optical Channels With Energy Harvesting Devices. IEEE Transactions on Green Communications and Networking, 2018, 2, 154-162.	3.5	6
652	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
653	Energy-Efficient SWIPT: From Fully Digital to Hybrid Analogâ€“Digital Beamforming. IEEE Transactions on Vehicular Technology, 2018, 67, 3390-3405.	3.9	42
654	Energy Allocation and Utilization for Wirelessly Powered IoT Networks. IEEE Internet of Things Journal, 2018, 5, 2781-2792.	5.5	18

#	Article	IF	Citations
655	A Survey on Efficient Power Consumption in Adaptive Wireless Sensor Networks. Wireless Personal Communications, 2018, 101, 101-117.	1.8	9
656	On Maximizing Min Flow Rates in Rechargeable Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2018, 14, 2962-2972.	7.2	9
657	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
658	Transmission power scheduling and control co-design for wireless sensor networks. Information Sciences, 2018, 442-443, 114-127.	4.0	8
659	Linear Precoding to Optimize Throughput, Power Consumption and Energy Efficiency in MIMO Wireless Sensor Networks. IEEE Transactions on Communications, 2018, 66, 2122-2136.	4.9	8
660	You Can Recharge With Detouring: Optimizing Placement for Roadside Wireless Charger. IEEE Access, 2018, 6, 47-59.	2.6	74
661	Solar-powered, wireless smart camera network: An IoT solution for outdoor video monitoring. Computer Communications, 2018, 118, 217-233.	3.1	47
662	Review of Internet of Things (IoT) in Electric Power and Energy Systems. IEEE Internet of Things Journal, 2018, 5, 847-870.	5.5	460
663	Disaster Management Using D2D Communication With Power Transfer and Clustering Techniques. IEEE Access, 2018, 6, 14643-14654.	2.6	97
664	Energy Cooperation in Battery-Free Wireless Communications with Radio Frequency Energy Harvesting. Transactions on Embedded Computing Systems, 2018, 17, 1-17.	2.1	30
665	Beamforming in Wireless Energy Harvesting Communications Systems: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 1329-1360.	24.8	119
666	Distributed unequal clustering algorithm in large-scale wireless sensor networks using fuzzy logic. Journal of Supercomputing, 2018, 74, 2329-2352.	2.4	40
667	Max-SNR Opportunistic Routing for Large-Scale Energy Harvesting Sensor Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 506-516.	3.5	22
668	Cognitive Radio Network With Energy-Harvesting Based on Primary and Secondary User Signals. IEEE Access, 2018, 6, 9081-9090.	2.6	21
669	Statistical analysis on ambient <scp>RF</scp> energy harvesting for lowâ€power wireless applications. International Journal of Communication Systems, 2018, 31, e3538.	1.6	6
670	Wireless Powered Sensor Networks for Internet of Things: Maximum Throughput and Optimal Power Allocation. IEEE Internet of Things Journal, 2018, 5, 310-321.	5.5	127
671	A new approach to design of RF energy harvesting system to enslave wireless sensor networks. ICT Express, 2018, 4, 228-233.	3.3	20
672	Micro electrostatic energy harvester with both broad bandwidth and high normalized power density. Applied Energy, 2018, 212, 362-371.	5.1	315

#	Article	IF	Citations
673	IoT Devices. , 2018, , 17-23.		2
674	A comprehensive review on energy harvesting MAC protocols in WSNs: Challenges and tradeoffs. Ad Hoc Networks, 2018, 71, 117-134.	3.4	95
675	The DF-AF Selection Relay Transmission Based on Energy Harvesting. , 2018, , .		13
676	Reviewâ€"Power Sources for the Internet of Things. Journal of the Electrochemical Society, 2018, 165, B3130-B3136.	1.3	126
677	A unified performance analysis of decodeâ€andâ€forward dualâ€hop relayingâ€based wireless energy harvesting with space modulation. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3419.	2.6	3
678	Lifetime Extension of Wireless Sensor Networks with Energy Harvesting. Journal of Signal Processing, 2018, 22, 77-86.	0.2	6
679	Efficient energy management by exploiting retention state for self-powered nonvolatile processors. Journal of Systems Architecture, 2018, 87, 23-35.	2.5	5
680	Energy-Harvesting Wireless Sensor Networks (EH-WSNs). ACM Transactions on Sensor Networks, 2018, 14, 1-50.	2.3	247
681	Resource allocation for hybrid TS and PS SWIPT in massive MIMO system. Physical Communication, 2018, 28, 201-213.	1.2	7
682	Optimal User Scheduling in Energy Harvesting Wireless Networks. IEEE Transactions on Communications, 2018, , 1-1.	4.9	11
683	A Dynamic Programming Algorithm for High-Level Task Scheduling in Energy Harvesting IoT. IEEE Internet of Things Journal, 2018, 5, 2234-2248.	5.5	48
684	Wire Less Sensors for Electromechanical Systems Diagnostics. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2235-2246.	2.4	3
685	Avoiding Data Inconsistency in Energy Harvesting Powered Embedded Systems. ACM Transactions on Design Automation of Electronic Systems, 2018, 23, 1-25.	1.9	17
686	Solar energy harvesting wireless sensor network nodes: A survey. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	87
687	Lyapunov Optimization for Energy Harvesting Wireless Sensor Communications. IEEE Internet of Things Journal, 2018, 5, 1947-1956.	5.5	45
688	BER and achievable rate analysis of wireless powered communications with correlated uplink and downlink. IET Communications, 2018, 12, 310-316.	1.5	3
689	Simultaneous Lightwave Information and Power Transfer (SLIPT). IEEE Transactions on Green Communications and Networking, 2018, 2, 764-773.	3.5	105
690	Optimal Power Control for Transmitting Correlated Sources With Energy Harvesting Constraints. IEEE Transactions on Wireless Communications, 2018, 17, 461-476.	6.1	5

#	Article	IF	Citations
691	Wireless Information and Power Transfer: Probability-Based Power Allocation and Splitting With Low Complexity. IEEE Systems Journal, 2018, 12, 1060-1064.	2.9	3
692	A Sybil attack detection scheme for a forest wildfire monitoring application. Future Generation Computer Systems, 2018, 80, 613-626.	4.9	80
693	Energy-efficient data sensing and routing in unreliable energy-harvesting wireless sensor network. Wireless Networks, 2018, 24, 611-625.	2.0	29
694	Simultaneous wireless information and power transfer for relay assisted energy harvesting network. Wireless Networks, 2018, 24, 453-462.	2.0	15
695	Capacity of Energy Harvesting Binary Symmetric Channels With a $(sigma ,ho)$ -Power Constraint. IEEE Transactions on Communications, 2018, 66, 601-614.	4.9	2
696	A queueing model of an energy harvesting sensor node with data buffering. Telecommunication Systems, 2018, 67, 281-295.	1.6	21
697	Misalignment controller in wireless battery charger for electric vehicle based on MPPT method and metaheuristic algorithm. Wireless Networks, 2018, 24, 2375-2396.	2.0	2
698	On the Tradeoff Between Collision and Cooperation in a Random Access Wireless Network With Energy Harvesting Nodes. IEEE Transactions on Vehicular Technology, 2018, 67, 2501-2513.	3.9	8
699	Energy Harvesting in Internet of Things. Internet of Things, 2018, , 35-79.	1.3	20
700	Internet of Everything. Internet of Things, 2018, , .	1.3	20
701	Green-Energy-Powered Cognitive Radio Networks. Transactions on Embedded Computing Systems, 2018, 17, 1-18.	2.1	5
702	Internet of Hybrid Energy Harvesting Things. IEEE Internet of Things Journal, 2018, 5, 736-746.	5.5	160
703	Harvest Energy from the Water. Transactions on Embedded Computing Systems, 2018, 17, 1-24.	2.1	7
704	Recent Advances in Attacks, Technical Challenges, Vulnerabilities and Their Countermeasures in Wireless Sensor Networks. Wireless Personal Communications, 2018, 98, 2037-2077.	1.8	134
705	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
706	A Cooperative Clustering Protocol With Duty Cycling for Energy Harvesting Enabled Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2018, 17, 101-111.	6.1	70
707	Wireless Power Transfer and Data Collection in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2686-2697.	3.9	71
708	Nonlinear model and optimization method for a single-axis linear-motion energy harvester for footstep excitation. Smart Materials and Structures, 2018, 27, 125007.	1.8	17

#	Article	IF	Citations
709	A Capitalist Scheme for Energy Management in Inferential Sensor Networks. , 2018, , .		0
710	On Optimal Scheduling and Power Control for Uncoordinated Multiple Access by Energy Harvesting Nodes. , 2018, , .		1
711	Evaluation of Precoding Scheme for Multi-User MIMO SWIPT Systems. , 2018, , .		1
712	Quantum fireworks algorithm for optimal cooperation mechanism of energy harvesting cognitive radio. Journal of Systems Engineering and Electronics, 2018, 29, 18-30.	1.1	8
713	A Flexible Network Utility Optimization Approach for Energy Harvesting Sensor Networks. , 2018, , .		2
715	Optimization of Energy Consumption in Wireless Sensor Network â€“ A Review. , 2018, , .		1
716	Scaling configuration of energy harvesting sensors with reinforcement learning. , 2018, , .		22
717	M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components. Sensors, 2018, 18, 3992.	2.1	5
718	Puppet: Energy Efficient Task Mapping For Storage-Less and Converter-Less Solar-Powered Non-Volatile Sensor Nodes. , 2018, , .		3
719	Average Age of Information Minimization in an Energy Harvesting Wireless Sensor Node. , 2018, , .		8
720	Wireless Information and Power Transfer Based on Generalized Triangular Decomposition. , 2018, , .		1
721	RF Energy Harvesting in Cognitive Radio: Towards Green Communication. MATEC Web of Conferences, 2018, 210, 03015.	0.1	0
722	Low-power step counting paired with electromagnetic energy harvesting for wearables. , 2018, , .		2
723	A 20mV Rectifier for Boosting Internet of Natural Things (IoNT). , 2018, , .		2
725	Statistical Energy Neutrality in IoT Hybrid Energy-Harvesting Networks. , 2018, , .		11
726	Power Harvesting Technologies in the Power Grid. , 2018, , .		1
727	Outage Probability for Two-Way Relay Networks with Stochastic Energy Harvesting Source Nodes. , 2018, , .		1
728	Optimal Local Thresholds for Distributed Detection in Energy Harvesting Wireless Sensor Networks. , 2018, , .		8

#	Article	IF	Citations
729	Energy Management for Multi-User Mobile-Edge Computing Systems with Energy Harvesting Devices and QoS Constraints. , 2018, , .		4
730	Performance of a Cooperative Network with Direct Link and an Energy-Buffer Aided Relay. , 2018, , .		1
731	Transceiver Design for Data Rate Maximization of MIMO SWIPT System Based on Generalized Triangular Decomposition. , 2018, , .		2
732	Distributed Energy Dispatch of Electrical Energy Storage Systems Using Consensus Control Approach. IFAC-PapersOnLine, 2018, 51, 229-234.	0.5	5
733	Energy-Aware Adaptative Supercapacitor Storage System for Multi-Harvesting Solutions. , 2018, , .		3
734	A Survey on Energy Harvesting Cognitive Radio Networks. , 2018, , .		7
735	Link Scheduling in Rechargeable Wireless Sensor Networks with Harvesting Time and Battery Capacity Constraints. , 2018, , .		3
736	Information Age and Packet Loss Performance Analysis of Energy Harvesting WSNs. , 2018, , .		1
737	Toward a Perpetual IoT System: Wireless Power Management Policy With Threshold Structure. IEEE Internet of Things Journal, 2018, 5, 5254-5270.	5.5	9
738	Learning Aided Optimization for Energy Harvesting Devices with Outdated State Information. , 2018, , .		11
739	Routing with Renewable Energy Management in Wireless Sensor Networks. , 2018, , .		0
740	Enhanced Energy Efficient LEACH Protocol Using Adaptive Filter in WSN. , 2018, , .		4
741	HiddenCode: Hidden Acoustic Signal Capture with Vibration Energy Harvesting. , 2018, , .		6
742	Operation Cost Minimization for Base Stations With Heterogenous Energy Supplies and Sleep-Awake Mode: A Two-Timescale Approach. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 908-918.	4.9	11
743	QoE Aware and Cell Capacity Enhanced Computation Offloading for Multi-Server Mobile Edge Computing Systems with Energy Harvesting Devices. , 2018, , .		12
744	Dynamic programming based optimal renewable energy allocation in sustained wireless sensor networks. Journal of Renewable and Sustainable Energy, 2018, 10, 063705.	0.8	1
746	Design and Study of Piezoelectric Energy Harvesting Cantilever from Human Body. , 2018, , .		4
747	Feasibility of multi-tenancy on intermittent power. , 2018, , .		3

#	Article	IF	Citations
748	Real-time Distributed In-Situ Benchmarking of Energy Harvesting IoT Devices. , 2018, , .		2
750	RF Energy Harvesting and Information Transmission Based on Power Splitting and NOMA for IoT Relay Systems. , 2018, , .		8
751	A Consensus-Based Dispatch Algorithm of Constrained Electrical Energy Storage Systems. , 2018, , .		1
752	Energy-Efficient Detection Using Ordered Transmissions in Energy Harvesting WSNs. , 2018, , .		2
753	Resource Allocation in Wireless Powered IoT System: A Mean Field Stackelberg Game-Based Approach. Sensors, 2018, 18, 3173.	2.1	7
754	Energy-Aware Control of Error Correction Rate for Solar-Powered Wireless Sensor Networks. Sensors, 2018, 18, 2599.	2.1	7
755	RF Energy Harvesting and Information Transmission Based on NOMA for Wireless Powered IoT Relay Systems. Sensors, 2018, 18, 3254.	2.1	28
756	An Autonomous Wireless Sensor Network in a Substation Area Using Wireless Transfer of Energy. IEEE Access, 2018, 6, 62352-62360.	2.6	9
757	Adapting Probabilistic Flooding in Energy Harvesting Wireless Sensor Networks. Journal of Sensor and Actuator Networks, 2018, 7, 39.	2.3	4
758	Energy and channel transmission management algorithm for resource harvesting body area networks. International Journal of Distributed Sensor Networks, 2018, 14, 155014771875923.	1.3	7
759	Energy-Aware Control of Data Compression and Sensing Rate for Wireless Rechargeable Sensor Networks. Sensors, 2018, 18, 2609.	2.1	7
760	Asymptotically Throughput Optimal Scheduling for Energy Harvesting Wireless Sensor Networks. IEEE Access, 2018, 6, 45004-45020.	2.6	17
761	Torpor: A Power-Aware HW Scheduler for Energy Harvesting IoT SoCs. , 2018, , .		9
762	Beamâ€domain SWIPT in massive MIMO system with energyâ€constrained terminals. IET Communications, 2018, 12, 1900-1909.	1.5	8
763	Practical Backscatter Communication Systems for Battery-Free Internet of Things: A Tutorial and Survey of Recent Research. IEEE Signal Processing Magazine, 2018, 35, 16-27.	4.6	177
764	Automatic charging of an energy harvesting powered sensor node from controllable energy source. , 2018, , .		1
765	Energy Harvesting Sources, Storage Devices and System Topologies for Environmental Wireless Sensor Networks: A Review. Sensors, 2018, 18, 2446.	2.1	159
766	A Decentralized Control of Autonomous Delay Tolerant Networks: Multi Agents Markov Decision Processes Framework. , 2018, , .		2

#	Article	IF	Citations
767	The Impact of Waveform on the Efficiency of Wireless Power Transfer Using Prefabricated Energy Harvesting Device. , 2018, , .		3
768	Design of a TG Based High Frequency Rectifier at 45 nm for RF Energy Harvesting Application. , 2018, , .		5
769	Demo Abstract: Simultaneous Energy Harvesting and Sensing Using Piezoelectric Energy Harvester. , 2018, , .		2
770	Secrecy Performance of Wireless Powered Communication Networks With Multiple Eavesdroppers and Outdated CSI. IEEE Access, 2018, 6, 33774-33788.	2.6	14
771	Energy and Spectral Efficient Cognitive Radio Sensor Networks for Internet of Things. IEEE Internet of Things Journal, 2018, 5, 3220-3233.	5.5	75
772	Simplifying self-adaptive and power-aware computing with Nornir. Future Generation Computer Systems, 2018, 87, 136-151.	4.9	18
773	Micro Energy Harvester With Dual Electrets on Sandwich Structure Optimized by Air Damping Control for Wireless Sensor Network Application. IEEE Access, 2018, 6, 26779-26788.	2.6	30
774	Efficient data collection in wireless powered communication networks with node throughput demands. Computer Communications, 2018, 126, 1-10.	3.1	14
775	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
776	Energy-efficient sink placement in wireless sensor networks. Computer Networks, 2018, 141, 166-178.	3.2	20
777	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
778	Experiment, Modeling, and Analysis of Wireless-Powered Sensor Network for Energy Neutral Power Management. IEEE Systems Journal, 2018, 12, 3381-3392.	2.9	17
779	Low complexity resource allocation in the relay channels with energy harvesting transmitters. Ad Hoc Networks, 2018, 77, 108-118.	3.4	4
780	Access Mechanism in Wireless Powered Communication Networks With Harvesting Access Point. IEEE Access, 2018, 6, 37556-37567.	2.6	9
781	Analysis and Synthesis of Double Negative Dielectric Media Rectenna Systems for Ambient Microwave Energy Harvesting. International Journal of Antennas and Propagation, 2018, 2018, 1-13.	0.7	2
782	How Machine Learning Could Detect Anomalies on Thinger.io Platform?. Communications in Computer and Information Science, 2018, , 259-269.	0.4	1
783	Utilityâ€based cooperative spectrum leasing scheme for CR networks with hybrid energy supplies. IET Communications, 2018, 12, 509-517.	1.5	2
784	Modelling and Performance Analysis of Wireless LAN Enabled by RF Energy Transfer. IEEE Transactions on Communications, 2018, 66, 5756-5772.	4.9	22

#	Article	IF	Citations
785	Physical layer security in cognitive radio network with energy harvesting relay and jamming in the presence of direct link. IET Communications, 2018, 12, 1389-1395.	1.5	22
786	Lyapunov-Optimized Two-Way Relay Networks With Stochastic Energy Harvesting. IEEE Transactions on Wireless Communications, 2018, 17, 6280-6292.	6.1	15
787	Research on Interference Energy Harvesting Based on SWIPT Relay System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 430-439.	0.2	1
788	UAV-Assisted RF Energy Transfer. , 2018, , .		23
789	Energy Cost Reduction for Hybrid Energy Supply Base Stations with Sleep Mode Techniques. , 2018, , .		1
790	A new multi-mode multi-inputâ€“multi-output (MIMO) converter in an efficient low-voltage energy harvesting system for a gas sensor. Microsystem Technologies, 2018, 24, 4477-4492.	1.2	3
791	Enhancement of RWSN Lifetime via Firework Clustering Algorithm Validated by ANN. Information (Switzerland), 2018, 9, 60.	1.7	16
792	A New Approach to Design Autonomous Wireless Sensor Node Based on RF Energy Harvesting System. Sensors, 2018, 18, 133.	2.1	37
793	Power-Efficient Beacon Recognition Method Based on Periodic Wake-Up for Industrial Wireless Devices. Sensors, 2018, 18, 1237.	2.1	3
794	Energy Harvesting over Rician Fading Channel: A Performance Analysis for Half-Duplex Bidirectional Sensor Networks under Hardware Impairments. Sensors, 2018, 18, 1781.	2.1	32
795	Supercapacitor Electro-Mathematical and Machine Learning Modelling for Low Power Applications. Electronics (Switzerland), 2018, 7, 44.	1.8	25
796	Optimal Agingâ€“Aware Channel Access and Power Allocation for Batteryâ€“Powered Devices With Radio Frequency Energy Harvesting. IEEE Transactions on Communications, 2018, 66, 5773-5787.	4.9	5
797	A Wireless Sensor Node Driving System with Bridgeless Bipolar Boost Rectifier Using Thermoelectric Energy Harvesting. , 2018, , .		1
798	Data collection in sensornets with heterogeneous duty cycles: pursuit of efficient opportunity. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	0
799	Cooperative spectrum sharingâ€based relaying protocols with wireless energy harvesting cognitive user. IET Communications, 2018, 12, 838-847.	1.5	24
800	Performance Analysis of Wireless Powered DF Relay System Under Nakagami-m Fading. IEEE Transactions on Vehicular Technology, 2018, 67, 7073-7085.	3.9	10
801	Joint relay-user selection in energy harvesting relay network with direct link. Physical Communication, 2018, 28, 123-129.	1.2	6
802	Self-powered wireless sensor node for flow and temperature sensing. Journal of Physics: Conference Series, 2018, 1052, 012092.	0.3	1

#	Article	IF	Citations
803	A Dual-Threshold Scheme Along with Security Reinforcement for Energy Efficient Nonvolatile Processors. , 2018, , .		3
804	Optimal Speed Allocation in Sink-Based Energy Harvesting Wireless Sensor Networks. , 2018, , .		0
805	Harvesting-Throughput Trade-Off for Wireless-Powered Smart Grid IoT Applications: An Experimental Study. , 2018, , .		8
806	Dual-threshold directed execution progress maximization for nonvolatile processors. , 2018, , .		1
807	Research on the Energy Allocation Scheme Based on SWIPT Relaying System. Mobile Networks and Applications, 2018, 23, 1449-1458.	2.2	1
808	Optimal self-powered control of dynamic systems: Duality techniques. , 2018, , .		3
809	SEHS: Simultaneous Energy Harvesting and Sensing Using Piezoelectric Energy Harvester. , 2018, , .		23
810	Energy-Delay Tradeoff for Dynamic Offloading in Mobile-Edge Computing System With Energy Harvesting Devices. IEEE Transactions on Industrial Informatics, 2018, 14, 4642-4655.	7.2	184
811	Towards Immortal Wireless Sensor Networks by Optimal Energy Beamforming and Data Routing. IEEE Transactions on Wireless Communications, 2018, 17, 5338-5352.	6.1	14
813	A dual polarized multiband rectenna for RF energy harvesting. AEU - International Journal of Electronics and Communications, 2018, 93, 123-131.	1.7	51
814	Towards Batteryfree and Wireless Sensing for Personalized Ultraviolet Exposure Monitoring. IEEE Sensors Journal, 2018, 18, 5515-5521.	2.4	4
815	Wireless transmission design with neural network for radio-frequency energy harvesting. , 2018, , .		1
816	Comparative throughput study of energy harvesting CR network with adaptive hybrid relay. CSI Transactions on ICT, 2018, 6, 179-185.	0.7	0
817	Lightweight Block Ciphers for IoT: Energy Optimization and Survivability Techniques. IEEE Access, 2018, 6, 35966-35978.	2.6	72
818	A Thermoelectric Powered System for Skiing Performance Monitoring. Lecture Notes in Electrical Engineering, 2019, , 135-144.	0.3	1
819	Multisource Energy Harvesting System for a Wireless Sensor Network Node in the Field Environment. IEEE Internet of Things Journal, 2019, 6, 918-927.	5.5	105
820	Estimation of event loss duration for energy harvested wireless body sensor node. Telecommunication Systems, 2019, 70, 231-244.	1.6	1
821	Rotational energy harvesting using bi-stability and frequency up-conversion for low-power sensing applications: Theoretical modelling and experimental validation. Mechanical Systems and Signal Processing, 2019, 125, 229-244.	4.4	181

#	Article	IF	Citations
822	Deep Deterministic Policy Gradient (DDPG)-Based Energy Harvesting Wireless Communications. IEEE Internet of Things Journal, 2019, 6, 8577-8588.	5.5	184
823	Design Considerations for Analog LCMOS Harvest-Use Integrated Signal Processing. , 2019, , .		0
824	Performance of a Cooperative Network With an Energy Buffer-Aided Relay. IEEE Transactions on Green Communications and Networking, 2019, 3, 774-788.	3.5	15
825	Sleep Time Adjustment through Performance Indicators of a Lithium-Ion Battery. , 2019, , .		2
826	Critical review on slope monitoring systems with a vision of unifying WSN and IoT. IET Wireless Sensor Systems, 2019, 9, 167-180.	1.3	15
827	Performance of Energy-Buffer Aided Incremental Relaying in Cooperative Networks. IEEE Transactions on Wireless Communications, 2019, 18, 3583-3598.	6.1	25
829	M2M Communications as a Promising Technique to Support Green Powered Base Stations. , 2019, , .		1
830	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
831	Tumbler. , 2019, , .		12
832	Cognitive Machine to Machine Communication with Energy Harvesting in IoT networks. , 2019, , .		3
833	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
834	Joint Balanced Routing and Energy Harvesting Strategy for Maximizing Network Lifetime in WSNs. Energies, 2019, 12, 2336.	1.6	7
835	Statistical Analysis of Multiple Antenna Strategies for Wireless Energy Transfer. IEEE Transactions on Communications, 2019, 67, 7245-7262.	4.9	24
836	Learning-Aided Optimization for Energy-Harvesting Devices With Outdated State Information. IEEE/ACM Transactions on Networking, 2019, 27, 1501-1514.	2.6	13
837	A Self-Powered PMFC-Based Wireless Sensor Node for Smart City Applications. Wireless Communications and Mobile Computing, 2019, 2019, 1-10.	0.8	19
838	Energy Harvesting Techniques for Wireless Sensor Networks/Radio-Frequency Identification: A Review. Symmetry, 2019, 11, 865.	1.1	72
839	Fuzzy Power Management for Internet of Things (IOT) Wireless Sensor Nodes. , 2019, , .		3
840	Towards a Green and Self-Powered Internet of Things Using Piezoelectric Energy Harvesting. IEEE Access, 2019, 7, 94533-94556.	2.6	133

#	Article	IF	Citations
841	Scheduling and power management in energy harvesting computing systems with real-time constraints. Journal of Systems Architecture, 2019, 98, 243-248.	2.5	15
842	A practical appraisal of thermoelectric materials for use in an autonomous power supply. Scripta Materialia, 2019, 172, 98-104.	2.6	21
843	Relay-Energy Access Points for Internet-of-Things Wireless Energy Harvesting and Communications. , 2019, , .		0
844	Energy-Efficient Resource Allocation for Wireless Powered Cognitive Mobile Edge Computing. , 2019, , .		3
845	Ecosystem of Things: Hardware, Software, and Architecture. Proceedings of the IEEE, 2019, 107, 1563-1583.	16.4	7
846	Electrical Performance of a Piezo-inductive Device for Energy Harvesting with Low-Frequency Vibrations. Actuators, 2019, 8, 55.	1.2	3
847	Closed-Form Analysis of Non-Linear Age of Information in Status Updates With an Energy Harvesting Transmitter. IEEE Transactions on Wireless Communications, 2019, 18, 4129-4142.	6.1	78
848	Secrecy outage in a two-hop decode and forward relay network with accumulated harvested energy. Physical Communication, 2019, 36, 100792.	1.2	4
849	Mechatronized maximum power point tracking for electric field energy harvesting sensor. AEU - International Journal of Electronics and Communications, 2019, 110, 152830.	1.7	10
850	User grouping and resource allocation in multiuser MIMO systems under SWIPT. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	1
851	An Adaptive Energy Management Strategy to Extend Battery Lifetime of Solar Powered Wireless Sensor Nodes. IEEE Access, 2019, 7, 88289-88300.	2.6	31
852	A load-balanced cross-layer design for energy-harvesting sensor networks. Journal of Network and Computer Applications, 2019, 145, 102390.	5.8	17
853	Underwater optical wireless communications, networking, and localization: A survey. Ad Hoc Networks, 2019, 94, 101935.	3.4	285
854	Efficient Energy Supply Using Mobile Charger for Solar-Powered Wireless Sensor Networks. Sensors, 2019, 19, 2679.	2.1	7
855	Physical Layer Security of an Amplify-and-Forward Energy Harvesting-Based Mixed RF/UOW System. , 2019, , .		7
856	Next generation backscatter communication: systems, techniques, and applications. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	85
857	Energy Harvesting For Wearable Devices: A Review. IEEE Sensors Journal, 2019, 19, 9047-9062.	2.4	130
858	Intelligently chosen interventions have potential to outperform the diode bridge in power conditioning. Scientific Reports, 2019, 9, 8994.	1.6	2

#	Article	IF	Citations
859	Fast Charging Scheduling under the Nonlinear Superposition Model with Adjustable Phases. ACM Transactions on Sensor Networks, 2019, 15, 1-23.	2.3	4
860	Enhanced Adaptive Cluster Control for Energy Harvesting Wireless Sensor Networks under Geographical Non-uniform Energy Harvesting Conditions. , 2019, , .		2
861	Transmission Policy of Two-Way Relay Networks With Multiple Stochastic Energy Harvesting Nodes. IEEE Access, 2019, 7, 76967-76984.	2.6	2
862	SCLNR-Based Precoding Scheme for Multi-User MIMO SWIPT Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 12392-12395.	3.9	5
863	Wireless Information and Power Transfer in Three-Phase Two-Way DF-Relay Networks over Nakagami-m Fading. , 2019, , .		1
864	Least Lossy Piezoelectric Energy-Harvesting Charger. , 2019, , .		2
865	Piezoelectric energy harvesting from AC current-carrying wire. Japanese Journal of Applied Physics, 2019, 58, SLLD10.	0.8	10
866	An Energy-aware IoT Node for Sustainable Urban Sensing. , 2019, , .		0
867	Time-to-Recharge Analysis for Energy-Relay-Assisted Energy Harvesting. IEEE Access, 2019, 7, 139924-139937.	2.6	6
868	Power Allocation for a Self-Sustainable Power Substation Monitoring System Using Wireless Transfer of Energy. IEEE Access, 2019, 7, 141456-141465.	2.6	8
869	Physical Layer Security under Accumulated Harvested Energy from RF Source. , 2019, , .		0
870	On the Energy and Data Storage Management in Energy Harvesting Wireless Communications. IEEE Transactions on Communications, 2019, 67, 8056-8071.	4.9	6
871	On the Performance of Regenerative Relaying for SWIPT in NOMA Systems. , 2019, , .		2
872	Performance Analysis of Wireless Powered Decode-and-Forward Relay System. , 2019, , .		1
873	Link Scheduling in Rechargeable Wireless Sensor Networks With Imperfect Batteries. IEEE Access, 2019, 7, 104721-104736.	2.6	6
874	Optimal Selective Transmission Policy for Energy-Harvesting Wireless Sensors via Monotone Neural Networks. IEEE Internet of Things Journal, 2019, 6, 9963-9978.	5.5	11
875	REAP. , 2019, , .		5
876	Stochastic Energy Harvesting and Relay Selection for Two-Way Dual-Relay Networks. IEEE Access, 2019, 7, 125323-125332.	2.6	2

#	Article	IF	Citations
877	Online Energy Harvesting Problem Over an Arbitrary Directed Acyclic Graph Network. IEEE Transactions on Green Communications and Networking, 2019, 3, 1106-1116.	3.5	0
878	A Mobility-Aware Cross-Edge Computation Offloading Framework for Partitionable Applications. , 2019, , .		55
879	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
880	Rendezvous Cost-Aware Opportunistic Routing in Heterogeneous Duty-Cycled Wireless Sensor Networks. IEEE Access, 2019, 7, 121825-121840.	2.6	11
881	Performance Analysis of RPL Protocol for Data Gathering Applications in Wireless Sensor Networks. Procedia Computer Science, 2019, 151, 185-193.	1.2	16
882	Rate Control for Wireless-Powered Communication Network With Reliability and Delay Constraints. IEEE Transactions on Wireless Communications, 2019, 18, 5791-5805.	6.1	5
883	Power Waveforming. , 2019, , 300-333.		0
884	Adaptive Freeshape Clustering for Balanced Energy Saving in the WirelessHART Networks. Complexity, 2019, 2019, 1-11.	0.9	4
885	Energy management in harvesting enabled sensing nodes: Prediction and control. Journal of Network and Computer Applications, 2019, 132, 104-117.	5.8	18
886	luXbeaconâ€"A Batteryless Beacon for Green IoT: Design, Modeling, and Field Tests. IEEE Internet of Things Journal, 2019, 6, 5001-5012.	5.5	33
887	Efficient Location Service for a Mobile Sink in Solar-Powered Wireless Sensor Networks. Sensors, 2019, 19, 272.	2.1	9
888	Dynamics and energy generation of a hybrid energy harvester under colored noise excitations. Mechanical Systems and Signal Processing, 2019, 121, 745-766.	4.4	41
889	Broadcast Approach for the Single-User Energy Harvesting Channel. IEEE Transactions on Communications, 2019, 67, 3192-3204.	4.9	4
890	Wireless Powered Cognitive-Based Mobile Edge Computing With Imperfect Spectrum Sensing. IEEE Access, 2019, 7, 80431-80442.	2.6	10
891	A lifetime enhancement protocol in clusterâ€based wireless sensor networks with guaranteed delay. International Journal of Communication Systems, 2019, 32, e3983.	1.6	1
892	A Literature Review on Energy Harvesting for Internet of Things Applications. Lecture Notes in Electrical Engineering, 2019, , 613-630.	0.3	0
893	Fault tolerance of random graphs with respect to connectivity: Mean-field approximation for semidense random graphs. Physical Review E, 2019, 99, 050304.	0.8	0
894	Performance analysis and optimisation of wireless powered decodeâ€andâ€forward considering circuit power consumption. IET Communications, 2019, 13, 1179-1184.	1.5	3

#	Article	IF	Citations
895	Energy-aware medium access control for energy-harvesting machine-to-machine networks. , 2019, , .		3
896	Analysis and design of an integrated RF energy harvester for ultra lowâ€power environments. International Journal of Circuit Theory and Applications, 2019, 47, 1086-1104.	1.3	16
897	Analysis of the Possibility of Using Energy Harvesters to Power Wearable Electronics in Clothing. Advances in Materials Science and Engineering, 2019, 2019, 1-13.	1.0	11
898	An Energy-Aware Retransmission Approach in SWIPT-Based Cognitive Relay Systems. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 580-594.	4.9	14
899	Simultaneous Wireless Information and Power Transfer Based on Generalized Triangular Decomposition. IEEE Transactions on Green Communications and Networking, 2019, 3, 751-764.	3.5	6
900	Nodes Deployment for Coverage in Rechargeable Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 6064-6073.	3.9	30
901	Energy Storage Overflow-Aware Data Delivery Scheme for Energy Harvesting Wireless Sensor Networks. Sensors, 2019, 19, 1383.	2.1	2
902	Energy harvesting optimization for built-in power replacement of electronic multisensory architecture. AEU - International Journal of Electronics and Communications, 2019, 107, 170-176.	1.7	20
903	Evaluating Energy-Efficiency using Thermal Imaging. , 2019, , .		6
904	Energy-Adaptive Error Correcting for Dynamic and Heterogeneous Networks. Proceedings of the IEEE, 2019, 107, 765-777.	16.4	2
905	ODECS: An On-Demand Explosion-Based Compressed Sensing Using Random Walks in Wireless Sensor Networks. IEEE Systems Journal, 2019, 13, 2466-2475.	2.9	9
906	An energy extraction enhanced interface circuit for piezoelectric and thermoelectric energy harvesting. IEICE Electronics Express, 2019, 16, 20190066-20190066.	0.3	7
907	Analyzing Power Beacon Assisted Transmission with Imperfect CSI in Wireless Powered Sensor Networks. Sensors, 2019, 19, 882.	2.1	1
908	Energy-Spectrum Efficiency Trade-Off in Energy Harvesting Cooperative Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 295-303.	4.9	35
909	Tradeoff Between Secrecy Capacity and Harvested Energy for Secure Visible Light Communications With SWIPT. IEEE Access, 2019, 7, 29543-29552.	2.6	13
910	AC Computing Methodology for RF-Powered IoT Devices. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 1017-1028.	2.1	13
911	ECP: A Probing-Based Error Control Strategy for THz-Based Nanonetworks With Energy Harvesting. IEEE Access, 2019, 7, 25616-25626.	2.6	8
912	Energy and power awareness in hardware schedulers for energy harvesting IoT SoCs. The Integration VLSI Journal, 2019, 67, 33-43.	1.3	12

#	Article	IF	Citations
913	Strategic Access and Pricing in Internet of Things (IoT) Service With Energy Harvesting. IEEE Access, 2019, 7, 34655-34674.	2.6	11
914	Energy-Efficient Transmission Schemes for Cooperative Wireless Powered Cellular Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 494-504.	3.5	14
915	The Design of an Energy Harvesting Wireless Sensor Node for Tracking Pink Iguanas. Sensors, 2019, 19, 985.	2.1	35
916	On Complete Targets Coverage in RF-Harvesting Internet of Things Networks. IEEE Communications Letters, 2019, 23, 922-925.	2.5	7
917	Electromechanical characteristics of piezoelectric vibration energy harvester with 2-degree-of-freedom system. Applied Physics Letters, 2019, 114, .	1.5	15
918	Energy-Efficient Cooperation in Mobile Edge Computing-Enabled Cognitive Radio Networks. IEEE Access, 2019, 7, 45382-45394.	2.6	24
919	Secrecy Analysis in SWIPT Systems Over Generalized-K Fading Channels. IEEE Communications Letters, 2019, 23, 834-837.	2.5	12
920	Localization of Energy Harvesting Empowered Underwater Optical Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2019, 18, 2652-2663.	6.1	59
921	Cooperative Transmission With Priority and Fairness in Edge Computing Systems. IEEE Access, 2019, 7, 44059-44069.	2.6	2
922	Robust Targets Coverage for Energy Harvesting Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5884-5892.	3.9	16
923	Mobile delayâ€tolerant networks with energyâ€harvesting and wireless energy transfer cooperation. Concurrency Computation Practice and Experience, 2019, 31, e5112.	1.4	3
924	Remote Image Capture System to Improve Aerial Supervision for Precision Irrigation in Agriculture. Water (Switzerland), 2019, 11, 255.	1.2	12
925	Asymptotically Optimal Uncoordinated Power Control Policies for Energy Harvesting Multiple Access Channels With Decoding Costs. IEEE Transactions on Communications, 2019, 67, 2420-2435.	4.9	4
926	Optimal Rate Control for Energy-Harvesting Systems with Random Data and Energy Arrivals. ACM Transactions on Sensor Networks, 2019, 15, 1-30.	2.3	6
927	Outage Probability Analysis in Relaying Cooperative Systems with NOMA Considering Power Splitting. Symmetry, 2019, 11, 72.	1.1	5
928	270-degree arc-shaped piezoelectric energy converter in uniflow fluid environment. IOP Conference Series: Materials Science and Engineering, 2019, 531, 012026.	0.3	3
929	Dynamics analysis of multi-field coupled piezoelectric energy harvester under random excitation. IOP Conference Series: Materials Science and Engineering, 2019, 531, 012038.	0.3	4
930	A review on energy harvesting and storage for rechargeable wireless sensor networks. IOP Conference Series: Materials Science and Engineering, 0, 508, 012120.	0.3	9

#	Article	IF	Citations
931	A Modified High Frequency Rectifier with Substrate Voltage Compensation Techniques at 45 nm Technology for RF Energy Harvesting Application. , 2019, , .		0
932	A Threshold Voltage Compensated Wideband RF Energy Harvesting Rectifier at 45 nm Technology. , 2019, , .		0
933	Age-of-Information Minimization in Two-User Multiple Access Channel with Energy Harvesting. , 2019, , .		3
934	Adaptive Multi-Sensing in EH-WSN for Smart Environment. , 2019, , .		3
935	Power Allocation in Wireless Energy Harvesting Based Relaying Sensor Networks. , 2019, , .		3
936	Markov Chain Based Outage Analysis of Wireless Powered Relay Networks. , 2019, , .		1
937	Effective Decentralized Energy Restoration by a Mobile Robot. , 2019, , .		1
938	The way toward autonomy in industry - taxonomy, process framework, enablers, and implications. , 2019, , .		4
939	Performance analysis of energy harvesting communications using multiple time slots. IET Communications, 2019, 13, 289-296.	1.5	8
940	Performance of Incremental Relaying with an Energy-Buffer Aided Relay. , 2019, , .		4
941	Optimum SWIPT relaying in bidirectional nonâ€regenerative relay networks. IET Communications, 2019, 13, 679-686.	1.5	2
942	Rate-Energy Outage Analysis of MISO SWIPT With Multiple Energy Harvesting Sensors. IEEE Access, 2019, 7, 177187-177197.	2.6	1
943	Performance Evaluation of Radio Frequency Energy Harvesting-Aided Multi-hop Cooperative Transmission Networks. , 2019, , .		0
944	Energy-Efficient Power Control for Energy Harvesting Cooperative Relay Sensor Network. , 2019, , .		1
945	Advanced Adaptive Cluster Control for Heterogeneous WSNs under Geographical Non-uniform Energy Harvesting Conditions. , 2019, , .		0
946	Waveforms Impact on Performance of Prefabricated Energy Harvesting Device. , 2019, , .		1
947	A Hybrid Prediction Model for Solar Radiation Based on Long Short-Term Memory, Empirical Mode Decomposition, and Solar Profiles for Energy Harvesting Wireless Sensor Networks. Energies, 2019, 12, 4762.	1.6	16
948	Energy-Efficient Activation/Inactivation Strategy for Long-term IoT Network Operation. , 2019, , .		0

#	Article	IF	Citations
949	Energy Harvesting Powered Wireless Sensor Nodes With Energy Efficient Network Joining Strategies. , 2019, , .		0
950	Performance of a Cooperative Network with Energy Harvesting Source and Relay. , 2019, , .		3
951	Performance analysis of RF Energy Harvesting Cooperative Communication Networks with DF scheme. , 2019, , .		1
952	Achieving Near-Optimal Fairness in Energy Harvesting Wireless Sensor Networks. , 2019, , .		7
953	Radio-Frequency Based Energy Charging- An Experimental Study. , 2019, , .		2
954	Implementation of low power RF to DC Converter for Wireless Sensor Network. , 2019, , .		0
955	Low-cost instrumentation of high-tunnels for a small co-op farm. , 2019, , .		0
956	Power Adaptation for Distributed Detection in Energy Harvesting WSNs with Finite-Capacity Battery. , 2019, , .		7
957	An Online Computation Offloading with Energy-Harvesting in Mobile ad Hoc Network. , 2019, , .		1
958	Energy-Neutral Operation Based on Simultaneous Wireless Information and Power Transfer for Wireless Powered Sensor Networks. Energies, 2019, 12, 3823.	1.6	10
959	Throughput Maximization for Wireless Powered Multimedia Communication Systems Under Statistical Latency Constraint. IEEE Access, 2019, 7, 175816-175826.	2.6	3
960	Data Censoring in Renewable Energy Enabled Wireless Sensor Networks. , 2019, , .		1
961	Machine Learning + Distributed IoT = Edge Intelligence. , 2019, , .		3
962	Simultaneous Lightwave Information and Power Transfer in Underwater Visible Light Communications. , 2019, , .		17
963	Smart Nonlinear Energy Harvesting. , 2019, , .		2
964	Secrecy Outage Probability Analysis for Visible Light Communications with SWIPT and Random Terminals. , 2019, , .		4
965	Secrecy Capacity-Harvesting Energy Regions for Indoor Visible Light Communications. , 2019, , .		0
966	Management of RF Energy Harvesting: A Survey. , 2019, , .		3

#	Article	IF	Citations
967	GWINs: Group-Based Medium Access for Large-Scale Wireless Powered IoT Networks. IEEE Access, 2019, 7, 172913-172927.	2.6	8
968	Physical Layer Security with Non-Linear Energy Harvesting Relay. , 2019, , .		4
969	Resource Allocation for Ultra-Dense Networks: A Survey, Some Research Issues and Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 2134-2168.	24.8	113
970	Spatial Modulation Technique: Achievements and Challenges. Advances in Intelligent Systems and Computing, 2019, , 441-448.	0.5	0
971	Power Management Circuit for Wireless Sensor Nodes Powered by Energy Harvesting: On the Synergy of Harvester and Load. IEEE Transactions on Power Electronics, 2019, 34, 8671-8681.	5.4	40
972	A low power high speed MTJ based non-volatile SRAM cell for energy harvesting based IoT applications. The Integration VLSI Journal, 2019, 65, 43-50.	1.3	3
973	Finite-horizon filtering for a class of nonlinear time-delayed systems with an energy harvesting sensor. Automatica, 2019, 100, 144-152.	3.0	116
974	EMC: Energy-Aware Morphable Cache Design for Non-Volatile Processors. IEEE Transactions on Computers, 2019, 68, 498-509.	2.4	16
975	Effect of Thickness Ratio in Piezoelectric/Elastic Cantilever Structure on the Piezoelectric Energy Harvesting Performance. Electronic Materials Letters, 2019, 15, 61-69.	1.0	12
976	Energy-Efficient Cooperative Resource Allocation in Wireless Powered Mobile Edge Computing. IEEE Internet of Things Journal, 2019, 6, 4744-4754.	5.5	103
977	Query-Based Sensors Selection for Collaborative Wireless Sensor Networks With Stochastic Energy Harvesting. IEEE Internet of Things Journal, 2019, 6, 3031-3043.	5.5	7
978	Energy Efficient Solutions in Wireless Sensor Systems for Water Quality Monitoring: A Review. IEEE Sensors Journal, 2019, 19, 1596-1625.	2.4	67
979	Energy Efficient Resource Allocation Algorithm for Massive MIMO Systems Based on Wireless Power Transfer. IEICE Transactions on Communications, 2019, E102.B, 351-358.	0.4	6
980	UAV Hovering Strategy Based on a Wirelessly Powered Communication Network. IEEE Access, 2019, 7, 3194-3205.	2.6	18
981	A Review on Fluid-Induced Flag Vibrations. Applied Mechanics Reviews, 2019, 71, .	4.5	56
982	Learning-Based Computation Offloading for IoT Devices With Energy Harvesting. IEEE Transactions on Vehicular Technology, 2019, 68, 1930-1941.	3.9	412
983	Machine learning based optimal renewable energy allocation in sustained wireless sensor networks. Wireless Networks, 2019, 25, 3953-3981.	2.0	9
984	Momentum. Transactions on Embedded Computing Systems, 2018, 17, 1-25.	2.1	11

#	Article	IF	Citations
985	Visual-Based Positioning of Aerial Maintenance Platforms on Overhead Transmission Lines. Applied Sciences (Switzerland), 2019, 9, 165.	1.3	36
986	Improvements of Energy-Efficient Techniques in WSNs: A MAC-Protocol Approach. IEEE Communications Surveys and Tutorials, 2019, 21, 1188-1208.	24.8	39
987	Distributed Energy Management for Multiuser Mobile-Edge Computing Systems With Energy Harvesting Devices and QoS Constraints. IEEE Internet of Things Journal, 2019, 6, 4035-4048.	5.5	58
988	Energy-Harvesting Piezoelectric-Powered CMOS Series Switched-Inductor Bridge. IEEE Transactions on Power Electronics, 2019, 34, 6489-6497.	5.4	11
989	Optimal data collection in wireless sensor networks with correlated energy harvesting. Annales Des Telecommunications/Annals of Telecommunications, 2019, 74, 299-310.	1.6	5
990	Compact and low loss electrochemical capacitors using a graphite / carbon nanotube hybrid material for miniaturized systems. Journal of Power Sources, 2019, 412, 374-383.	4.0	32
991	Theoretical analysis of multi-stable energy harvesters with high-order stiffness terms. Communications in Nonlinear Science and Numerical Simulation, 2019, 69, 270-286.	1.7	111
992	Energy Management in RFID-Sensor Networks: Taxonomy and Challenges. IEEE Internet of Things Journal, 2019, 6, 250-266.	5.5	30
993	EEM-EHWSN: Enhanced Energy Management Scheme in Energy Harvesting Wireless Sensor Networks. Wireless Networks, 2019, 25, 3029-3046.	2.0	26
994	Throughput analysis of wireless-powered decode-and-forward relay systems with interference. Wireless Networks, 2019, 25, 2485-2495.	2.0	3
996	Pervasive mobile healthcare systems for chronic disease monitoring. Health Informatics Journal, 2019, 25, 267-291.	1.1	28
997	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
998	Secure communication with energy harvesting multiple half-duplex DF relays assisted with jamming. Wireless Networks, 2020, 26, 1151-1164.	2.0	6
999	MEGAN: Multipurpose Energy-Efficient, Adaptable, and Low-Cost Wireless Sensor Node for the Internet of Things. IEEE Systems Journal, 2020, 14, 144-151.	2.9	31
1000	Performance of Wireless Powered DF Relay System Under Nakagami-m Fading: Relay Assists Energy-Constrained Source. IEEE Systems Journal, 2020, 14, 2497-2507.	2.9	14
1001	Joint Network Admission Control, Mode Assignment, and Power Allocation in Energy Harvesting Aided D2D Communication. IEEE Transactions on Industrial Informatics, 2020, 16, 1914-1923.	7.2	37
1002	Notice of Retraction: Enabling Hardware Green Internet of Things: A review of Substantial Issues. IEEE Access, 2024, , 1-1.	2.6	5
1003	Wireless sensor network for structural health monitoring: A contemporary review of technologies, challenges, and future direction. Structural Health Monitoring, 2020, 19, 693-735.	4.3	196

#	Article	IF	Citations
1004	How and where to use super-capacitors effectively, an integration of review of past and new characterization works on super-capacitors. Journal of Energy Storage, 2020, 27, 101044.	3.9	37
1005	Peer-to-peer energy sharing in mobile networks: Applications, challenges, and open problems. Ad Hoc Networks, 2020, 97, 102029.	3.4	33
1006	Control of Impulsively Excited Vibration Energy Harvesters: Design and Viability Assessment. IEEE Transactions on Control Systems Technology, 2020, 28, 2336-2351.	3.2	1
1008	An Energy-Efficient Cluster Head Selection Scheme for Energy-Harvesting Wireless Sensor Networks. Sensors, 2020, 20, 187.	2.1	57
1009	Response analysis of the nonlinear vibration energy harvester with an uncertain parameter. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2020, 234, 393-407.	0.5	20
1010	Sensing, Computing, and Communications for Energy Harvesting IoTs: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1222-1250.	24.8	184
1011	A Reinforcement Learning Algorithm for Resource Provisioning in Mobile Edge Computing Network. , 2020, , .		5
1012	Performance of Full-Duplex Signalling by Energy Buffer Equipped Energy Harvesting Nodes. , 2020, , .		0
1013	Performance Analysis and Optimization of Bidirectional Overlay Cognitive Radio Networks With Hybrid-SWIPT. IEEE Transactions on Vehicular Technology, 2020, 69, 13467-13481.	3.9	27
1014	Simultaneous Extreme Ultraviolet Information and Power Transfer(SEUVIPT). , 2020, , .		1
1015	Polyvinylidene Fluoride-Added Ceramic Powder Composite Near-Field Electrospinned Piezoelectric Fiber-Based Low-Frequency Dynamic Sensors. ACS Omega, 2020, 5, 17090-17101.	1.6	16
1016	Solar-CTP: An Enhanced CTP for Solar-Powered Wireless Sensor Networks. IEEE Access, 2020, 8, 127142-127155.	2.6	4
1017	Impact of Battery Charging on Spectrum Sensing of CRN With Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 7545-7557.	3.9	11
1018	Minimum Length Scheduling for Full Duplex Time-Critical Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2020, 19, 5993-6006.	6.1	16
1020	Outage performance analysis and resource allocation algorithm for energy harvesting D2D communication system. Wireless Networks, 2020, 26, 5163-5176.	2.0	6
1021	Power Control in Internet of Drones by Deep Reinforcement Learning. , 2020, , .		8
1022	Outage analysis of wireless-powered relaying FSO-RF systems with nonlinear energy harvesting. Optics Communications, 2020, 477, 126309.	1.0	10
1023	Outage Performance of Power Beacon-Aided Multi-Hop Cooperative Cognitive Radio Protocol Under Constraint of Interference and Hardware Noises. Electronics (Switzerland), 2020, 9, 1054.	1.8	1

#	Article	IF	Citations
1024	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
1025	Piezoelectric CMOS Charger: Highest Output-Power Design. , 2020, , .		1
1026	Search for Periodic Regimes in an Energy-Harvester Model by Simulation. Computational Mathematics and Modeling, 2020, 31, 293-307.	0.2	1
1027	Earth-Abundant Feâ€“Alâ€“Si Thermoelectric (FAST) Materials: from Fundamental Materials Research to Module Development. ACS Applied Materials & Interfaces, 2020, 12, 48804-48810.	4.0	13
1028	Throughput Maximization in Wireless Powered Energy Harvesting Based Sensor Networks. , 2020, , .		0
1029	<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
1030	I/Q Imbalance Aware Nonlinear Wireless-Powered Relaying of B5G Networks: Security and Reliability Analysis. IEEE Transactions on Network Science and Engineering, 2021, 8, 2995-3008.	4.1	53
1031	A Triboelectric Nanogenerator Exploiting the Bernoulli Effect for Scavenging Wind Energy. Cell Reports Physical Science, 2020, 1, 100207.	2.8	26
1032	Investigation of Piezoelectric Energy Harvesting via Nonlinear Friction-Induced Vibration. Shock and Vibration, 2020, 2020, 1-22.	0.3	1
1033	Efficient FEC Scheme for Solar-Powered WSNs Considering Energy and Link-Quality. Energies, 2020, 13, 3952.	1.6	4
1034	Prospective Efficient Ambient Energy Harvesting Sources for IoT-Equipped Sensor Applications. Electronics (Switzerland), 2020, 9, 1345.	1.8	45
1035	Security in Energy Harvesting Networks: A Survey of Current Solutions and Research Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 2658-2693.	24.8	39
1036	Energy-Neutral Wireless Sensor Network Based on SWIPT in Wireless Powered Communication Networks. , 2020, , .		1
1037	Optimization of Full-Duplex Relaying System With Non-Linear Energy Harvester. IEEE Access, 2020, 8, 201566-201576.	2.6	14
1038	Minimizing Age of Information in Energy Harvesting Wireless Sensor Networks. IEEE Access, 2020, 8, 219934-219945.	2.6	15
1039	Dynamics of symmetric and asymmetric potential well-based piezoelectric harvesters: A comprehensive review. Journal of Intelligent Material Systems and Structures, 2021, 32, 1881-1947.	1.4	24
1040	Agriculture Pump based on Smart Energy Harvesting on Solar System. IOP Conference Series: Materials Science and Engineering, 2020, 981, 042033.	0.3	0
1041	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

#	Article	IF	Citations
1042	Enabling a Battery-Less Sensor Node Using Dedicated Radio Frequency Energy Harvesting for Complete Off-Grid Applications. Energies, 2020, 13, 5402.	1.6	5
1043	An Anchor Based Technique for Network Localization in Underground Optical Wireless Sensor Network (UOWSN). , 2020, , .		0
1044	Serial Switch Only Rectifier as a Power Conditioning Circuit for Electric Field Energy Harvesting. Energies, 2020, 13, 5279.	1.6	6
1045	Energy Harvesting towards Self-Powered IoT Devices. Energies, 2020, 13, 5528.	1.6	139
1046	Performance of Networks with an Energy Buffer-Aided Source and a Data Buffer-Aided Relay. , 2020, , .		3
1047	Power Management IC for a Dual-Input-Triple-Output Energy Harvester. Micromachines, 2020, 11, 937.	1.4	1
1048	Performance Analysis and Improvement for Secure VLC With SLIPT and Random Terminals. IEEE Access, 2020, 8, 73645-73658.	2.6	10
1049	Experimental investigation of energy harvesting behind a bluff body. Journal of Renewable and Sustainable Energy, 2020, 12, .	0.8	14
1050	Using nanosensors in wireless sensor networks. , 2020, , 515-526.		0
1051	On-Site and External Energy Harvesting in Underground Wireless. Electronics (Switzerland), 2020, 9, 681.	1.8	23
1052	Reliability in Internet of Things: Current Status and Future Perspectives. IEEE Internet of Things Journal, 2020, 7, 6704-6721.	5.5	106
1054	ResiRCA: A Resilient Energy Harvesting ReRAM Crossbar-Based Accelerator for Intelligent Embedded Processors. , 2020, , .		18
1055	Relay Selection and Performance Analysis of Wireless Energy Harvesting Networks. Wireless Personal Communications, 2020, 114, 3157-3171.	1.8	7
1056	Deep Learning-Based Food Quality Estimation Using Radio Frequency-Powered Sensor Mote. IEEE Access, 2020, 8, 88360-88371.	2.6	28
1057	Piezoelectric Energy Harvesting Solutions: A Review. Sensors, 2020, 20, 3512.	2.1	316
1058	Development of spectral- and energy-efficient wireless communication techniques. CSI Transactions on ICT, 2020, 8, 165-169.	0.7	0
1059	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
1060	Cobalt-Embedded N-Doped Carbon Nanostructures for Oxygen Reduction and Supercapacitor Applications. ACS Applied Nano Materials, 2020, 3, 6354-6366.	2.4	22

#	Article	IF	Citations
1061	An Energy-Efficient, Parallel Neighborhood and Adaptation Functions for Hardware Implemented Self-Organizing Maps Applied in Smart Grid. Energies, 2020, 13, 1197.	1.6	2
1062	Special Session: Physically Flexible Devices for Health and Activity Monitoring: Challenges from Design to Test. , 2020, , .		3
1063	Heat transfer enhancement in laminar flow heat exchangers due to flapping flags. Physics of Fluids, 2020, 32, .	1.6	18
1064	Resource Allocation Strategy of Edge Systems Based on Task Priority and an Optimal Integer Linear Programming Algorithm. Symmetry, 2020, 12, 972.	1.1	3
1065	Secrecy Performance Analysis of Wireless Powered Sensor Networks Under Saturation Nonlinear Energy Harvesting and Activation Threshold. Sensors, 2020, 20, 1632.	2.1	5
1066	Bipolar electrochemical capacitors using double-sided carbon nanotubes on graphite electrodes. Journal of Power Sources, 2020, 451, 227765.	4.0	8
1067	Wirelessly-Powered Sensor Networks: Power Allocation for Channel Estimation and Energy Beamforming. IEEE Transactions on Wireless Communications, 2020, 19, 2987-3002.	6.1	15
1068	Scheduling Computational and Energy Harvesting Tasks in Deadline-Aware Intermittent Systems. , 2020, , .		23
1069	Renewable energy harvesting schemes in wireless sensor networks: A Survey. Information Fusion, 2020, 63, 223-247.	11.7	122
1070	Energy-Efficient Cluster Management Using a Mobile Charger for Solar-Powered Wireless Sensor Networks. Sensors, 2020, 20, 3668.	2.1	12
1071	A Solar-Radiation-Powered Thermoelectric Energy Harvester based on Quasicrystal. , 2020, , .		2
1072	Ordered Transmissions for Energy-Efficient Detection in Energy Harvesting Wireless Sensor Networks. IEEE Transactions on Communications, 2020, 68, 2525-2537.	4.9	12
1073	Optimal periodic DoS attack with energy harvester in cyber-physical systems. Neurocomputing, 2020, 390, 69-77.	3.5	22
1074	A review on solar forecasting and power management approaches for energyâ€harvesting wireless sensor networks. International Journal of Communication Systems, 2020, 33, e4366.	1.6	24
1075	On Stochastic Link and Energy Scheduling for Energy Harvesting Bidirectional Communications. IEEE Access, 2020, 8, 20129-20145.	2.6	2
1076	A Lean Control Theoretic Approach to Energy-Harvesting in Diffusion-Based Molecular Communications. IEEE Communications Letters, 2020, 24, 981-985.	2.5	7
1077	A New Green Prospective of Non-orthogonal Multiple Access (NOMA) for 5G. Information (Switzerland), 2020, 11, 89.	1.7	24
1078	Energy Management in a Multi-Source Energy Harvesting IoT System. Journal of Information Technology Research, 2020, 13, 42-59.	0.3	7

#	Article	IF	Citations
1079	Lighting flicker: a blind spot in indoor photovoltaic cell characterization. Applied Physics Express, 2020, 13, 024005.	1.1	4
1080	Thirty Years of Machine Learning: The Road to Pareto-Optimal Wireless Networks. IEEE Communications Surveys and Tutorials, 2020, 22, 1472-1514.	24.8	361
1081	A Hybrid Control Technique for Harmonic Elimination, Power Factor Correction, and Night Operation of a Grid-Connected PV Inverter. IEEE Journal of Photovoltaics, 2020, 10, 664-675.	1.5	28
1082	A Novel Security Protocol for Wireless Sensor Networks with Cooperative Communication. Computers, 2020, 9, 4.	2.1	19
1083	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
1084	ELC: Edge Linked Caching for content updating in information-centric Internet of Things. Computer Communications, 2020, 156, 174-182.	3.1	19
1085	An Online Remote Verification System of Thermal Sources for Energy Harvesting Application. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7962-7973.	2.4	8
1086	A survey â€“ Energy harvesting sources and techniques for internet of things devices. Materials Today: Proceedings, 2020, 30, 52-56.	0.9	23
1087	Surrogacy-Based Maximization of Output Power of a Low-Voltage Vibration Energy Harvesting Device. Applied Sciences (Switzerland), 2020, 10, 2484.	1.3	5
1088	An Energy Efficient QoS Supported Optimized Transmission Rate Technique in WBANs. Wireless Personal Communications, 2021, 117, 235-260.	1.8	13
1089	Energy Savvy Network Joining Strategies for Energy Harvesting Powered TSCH Nodes. IEEE Transactions on Industrial Informatics, 2021, 17, 1505-1514.	7.2	8
1090	Performance of a Cooperative Communication Network With Green Self-Sustaining Nodes. IEEE Transactions on Green Communications and Networking, 2021, 5, 426-441.	3.5	3
1091	Efficient Power Transfers in Piezoelectric Energy-Harvesting Switched-Inductor Chargers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1248-1252.	2.2	1
1092	A lightweight online backup manager for energy harvesting powered nonvolatile processor systems. Journal of Systems Architecture, 2021, 113, 101900.	2.5	4
1093	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.	5.5	5
1094	Hydrodynamic energy harvesting analysis of two piezoelectric tandem flags under influence of upstream bodyâ€™s wakes. Applied Energy, 2021, 282, 116173.	5.1	26
1095	Outage probability of dual-hop cooperative communication networks over the Nakagami-m fading channel with RF energy harvesting. Annales Des Telecommunications/Annals of Telecommunications, 2021, 76, 63-72.	1.6	1
1096	Smart Power Unitâ€”mW-to-nW Power Management and Control for Self-Sustainable IoT Devices. IEEE Transactions on Power Electronics, 2021, 36, 5700-5710.	5.4	29

#	Article	IF	Citations
1097	Optimizing DoS attack energy with imperfect acknowledgments and energy harvesting constraints in cyber-physical systems. Applied Mathematics and Computation, 2021, 393, 125821.	1.4	3
1098	Particle Filtering for Nonlinear/Non-Gaussian Systems With Energy Harvesting Sensors Subject to Randomly Occurring Sensor Saturations. IEEE Transactions on Signal Processing, 2021, 69, 15-27.	3.2	20
1099	Enhanced-Pro: A New Enhanced Solar Energy Harvested Prediction Model for Wireless Sensor Networks. Wireless Personal Communications, 2021, 117, 1103-1121.	1.8	10
1100	Experimental electro-hydrodynamic investigation of flag-based energy harvesting in the wake of inverted C-shape cylinder. Energy, 2021, 215, 119195.	4.5	33
1101	Energy Harvesting Irregular Repetition ALOHA With Replica Concatenation. IEEE Transactions on Wireless Communications, 2021, 20, 955-968.	6.1	14
1102	Experimental investigation of energy harvesting eel in the wake of bluff body under ocean waves. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2021, 235, 81-92.	0.3	3
1103	Optimal Energy Sharing for Cooperative Relaying in a Random Access Network With Energy Harvesting Nodes. IEEE Transactions on Green Communications and Networking, 2021, 5, 231-242.	3.5	1
1104	RF Energy Harvesting for Batteryless and Maintenance-Free Condition Monitoring of Railway Tracks. IEEE Internet of Things Journal, 2021, 8, 3512-3523.	5.5	50
1105	Link Scheduling in Rechargeable Wireless Sensor Networks With Imperfect Battery and Memory Effects. IEEE Access, 2021, 9, 17803-17819.	2.6	2
1106	Event-triggered transmission policies for harvesting powered sensors with time-varying models. IEEE Transactions on Green Communications and Networking, 2021, , 1-1.	3.5	1
1107	Multiple Harmonics Extended Impedance Model of Piezoelectric Energy Harvesting Systems. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1185-1195.	3.7	12
1108	A Survey of Energy and Spectrum Harvesting Technologies and Protocols for Next Generation Wireless Networks. IEEE Access, 2021, 9, 1737-1769.	2.6	16
1109	Learning to Charge RF-Energy Harvesting Devices in WiFi Networks. IEEE Systems Journal, 2021, 15, 5516-5525.	2.9	5
1110	Complete Targets Coverage in Energy-Harvesting IoT Networks With Dual Imperfect Batteries. IEEE Internet of Things Journal, 2022, 9, 6199-6212.	5.5	1
1111	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
1112	Reliable Transmission for Underwater Optical Wireless Communication Networks with Energy Harvesting. , 2021, , .		4
1113	Stabilizing a Queue Subject to Activity-Dependent Server Performance. IEEE Transactions on Control of Network Systems, 2021, 8, 1579-1591.	2.4	3
1114	Harvested Energy Scavenging and Transfer capabilities in Opportunistic Ring Routing. IEEE Access, 2021, 9, 75801-75825.	2.6	5

#	Article	IF	Citations
1115	Improvement on Age of Information for Information Update Systems With HARQ Chase Combining and Sensor Harvesting-Transmitting Diversities. IEEE Access, 2021, 9, 78035-78049.	2.6	4
1116	A Transparent Antenna For Hybrid Energy Harvesting. , 2021, , .		1
1117	LSTM-Characterized Deep Reinforcement Learning for Continuous Flight Control and Resource Allocation in UAV-Assisted Sensor Network. IEEE Internet of Things Journal, 2022, 9, 4179-4189.	5.5	23
1118	Realizing the Benefits of Energy Harvesting for IoT. Advances in Environmental Engineering and Green Technologies Book Series, 2021, , 144-155.	0.3	3
1119	AoI Minimization in Status Update Control With Energy Harvesting Sensors. IEEE Transactions on Communications, 2021, 69, 8335-8351.	4.9	35
1120	Cross-Layer Design for EH Systems with Finite Buffer Constraints. Computers, Materials and Continua, 2021, 69, 129-144.	1.5	0
1121	Energy Harvesting Techniques for Internet of Things (IoT). IEEE Access, 2021, 9, 39530-39549.	2.6	119
1122	Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting. IEEE Internet of Things Journal, 2021, 8, 17541-17556.	5.5	47
1123	Effect of Correlation Between Information and Energy Links in Secure Wireless Powered Communications. IEEE Transactions on Information Forensics and Security, 2021, 16, 3780-3789.	4.5	3
1124	The Broadcast Approach in Communication Networks. Entropy, 2021, 23, 120.	1.1	11
1125	The Response Analysis of Multi-Field Coupled Piezoelectric Energy Harvester Under White Gaussian Noise Excitation. Lecture Notes in Electrical Engineering, 2021, , 109-113.	0.3	0
1126	High-Density Resource-Restricted Pulse-Based IoT Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 1856-1868.	3.5	8
1127	Energy Harvesting in Smart Cities. , 2021, , 593-620.		0
1128	Secure Communication With Energy-Harvesting Buffer-Aided Jammer. IEEE Open Journal of the Communications Society, 2021, 2, 1799-1808.	4.4	0
1129	A Computing Task Offloading Scheme for Mobile Edge Computing. Lecture Notes in Computer Science, 2021, , 112-123.	1.0	0
1130	Camouflage Learning: Feature Value Obscuring Ambient Intelligence for Constrained Devices. IEEE Transactions on Mobile Computing, 2023, 22, 781-796.	3.9	2
1131	Analysis on Energy Harvesting Techniques for Underwater Wireless Sensor Networks. , 2021, , .		6
1132	Enhanced piezoelectric energy harvesting power with thermoelectric energy assistance. Journal of Intelligent Material Systems and Structures, 2021, 32, 2260-2272.	1.4	4

#	Article	IF	Citations
1133	Differential-drive CMOS rectifier with photovoltaic-assist and self-Vth-cancellation schemes for high power conversion efficiency under low input power conditions. Japanese Journal of Applied Physics, 2021, 60, SBBL04.	0.8	0
1134	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
1135	Ray Tracing-based Light Energy Prediction for Indoor Batteryless Sensors. , 2021, 5, 1-27.		6
1136	SolAR: Energy Positive Human Activity Recognition using Solar Cells. , 2021, , .		15
1137	Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay. IEEE Internet of Things Journal, 2021, 8, 5045-5061.	5.5	6
1138	Energy Harvesting Strategies for Wireless Sensor Networks and Mobile Devices: A Review. Electronics (Switzerland), 2021, 10, 661.	1.8	28
1139	Role of Wearables in Sports based on Activity recognition and biometric parameters: A Survey. , 2021, , .		13
1140	Bayesian estimation of equivalent circuit parameters of photovoltaic cells. Applied Physics Express, 2021, 14, 046502.	1.1	2
1141	Semi-Adaptive, Reliability Oriented EH-WSN Energy Management Algorithm. , 2021, , .		0
1142	Analysis of Asymmetric Dual-Hop Energy Harvesting-Based Wireless Communication Systems in Mixed Fading Environments. IEEE Transactions on Green Communications and Networking, 2021, 5, 261-277.	3.5	9
1144	Mobile Collectors for Opportunistic Internet of Things in Smart City Environment with Wireless Power Transfer. Electronics (Switzerland), 2021, 10, 697.	1.8	14
1145	Towards battery-less RF sensing. , 2021, , .		1
1146	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
1147	CPEH: A Clustering Protocol for the Energy Harvesting Wireless Sensor Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	0.8	4
1148	Investigation & Mitigation of the Energy Efficiency Impact of Node Resets in RPL. Ad Hoc Networks, 2021, 114, 102417.	3.4	3
1149	Sense Your Power. Transactions on Embedded Computing Systems, 2021, 20, 1-25.	2.1	6
1150	Maximizing network throughput by cooperative reinforcement learning in clustered solar-powered wireless sensor networks. International Journal of Distributed Sensor Networks, 2021, 17, 155014772110074.	1.3	9
1151	An Optically Transparent Near-Field Focusing Metasurface. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2015-2027.	2.9	45

#	Article	IF	Citations
1152	Hybrid Power Management System for LoRa Communication Using Renewable Energy. IEEE Internet of Things Journal, 2021, 8, 8423-8436.	5.5	14
1153	Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. IEEE Internet of Things Journal, 2021, 8, 8005-8020.	5.5	25
1154	Sector multi-beam space optimal bit error rate enhancement in wireless 5G using power domain NOMA. Soft Computing, 2023, 27, 537-545.	2.1	5
1155	RF Energy Harvesting and Management for Near-Zero Power Passive Devices. , 2021, , .		5
1156	Feâ€“Alâ€“Si Thermoelectric (FAST) Materials and Modules: Diffusion Couple and Machine-Learning-Assisted Materials Development. ACS Applied Materials & Interfaces, 2021, 13, 53346-53354.	4.0	10
1157	BER Performance Analysis of Energy Harvesting Underlay Cooperative Cognitive Radio Network With Randomly Located Primary Users and Secondary Relays. IEEE Transactions on Vehicular Technology, 2021, 70, 4740-4752.	3.9	13
1158	Brief Industry Paper: An Energy-Reduction On-Chip Memory Management for Intermittent Systems. , 2021, , .		3
1159	Comprehensive optimized hybrid energy storage system for long-life solar-powered wireless sensor network nodes. Applied Energy, 2021, 290, 116780.	5.1	40
1160	Miniaturized Magnetic Energy Harvester: Lightweight and Safe Transformer Design. , 2021, , .		4
1161	On Distributed Node Sleep Scheduling Optimization Method Based on Time Switching of SWIPT. , 2021, , .		0
1162	Self-Sustained Autonomous Wireless Sensor Network with Integrated Solar Photovoltaic System for Internet of Smart Home-Building (IoSHB) Applications. Micromachines, 2021, 12, 653.	1.4	22
1163	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
1164	Computation Offloading in Energy Harvesting Powered MEC Network. , 2021, , .		3
1165	On Flow Reliability in Energy Harvesting Wireless Sensor Networks. , 2021, , .		0
1166	Emerging Indoor Photovoltaic Technologies for Sustainable Internet of Things. Advanced Energy Materials, 2021, 11, 2100698.	10.2	117
1167	Performance Analysis for an Opportunistic DF Based WPC System with Interferers over Log-Normal Fading Channels. , 2021, , .		2
1168	Optimal Resource Allocations for Statistical QoS Provisioning to Support mURLLC Over FBC-EH-Based 6G THz Wireless Nano-Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 1544-1560.	9.7	12
1169	Bus network assisted drone scheduling for sustainable charging of wireless rechargeable sensor network. Journal of Systems Architecture, 2021, 116, 102059.	2.5	20

#	Article	IF	Citations
1170	Routing with Renewable Energy Management in Wireless Sensor Networks. Sensors, 2021, 21, 4376.	2.1	3
1171	A Novel Multi-Agent Model for Robustness with Component Failure and Malware Propagation in Wireless Sensor Networks. Sensors, 2021, 21, 4873.	2.1	8
1172	Dynamic Age Minimization With Real-Time Information Preprocessing for Edge-Assisted IoT Devices With Energy Harvesting. IEEE Transactions on Network Science and Engineering, 2021, 8, 2288-2300.	4.1	6
1173	Minimum Nodes Deployment for Mixed Energy Replenishment in Rechargeable WSNs. IEEE Sensors Journal, 2021, 21, 16282-16290.	2.4	3
1174	Extension Algorithms for Path Exposure in Energy Harvesting Wireless Sensor Networks. , 2021, , .		0
1175	Performance-aware cache management for energy-harvesting nonvolatile processors. Journal of Supercomputing, 0, , 1.	2.4	0
1176	A Wi-Fi Harvesting Enabled Energy Optimization Scheme for Smart Clothing. , 2021, , .		0
1177	Most Efficient Sensor Network Protocol for a Permanent Natural Disaster Monitoring System. IEEE Internet of Things Journal, 2021, 8, 11776-11792.	5.5	3
1178	Self-Powered Multi-Input Serial SSHI Interface Circuit With Arbitrary Phase Difference for Piezoelectric Energy Harvesting. IEEE Transactions on Power Electronics, 2021, 36, 9183-9192.	5.4	20
1179	Thermoelectric Energy Harvesting on Rotation Machines for Wireless Sensor Network in Industry 4.0. , 2021, , .		5
1180	Power Management for Energy Harvesting in IoT â€“ A Brief Review of Requirements and Innovations. , 2021, , .		6
1181	An Innovative LC-C Resonant Pressure Sensor Based on Capacitive Feedthroughs. IEEE Sensors Journal, 2021, 21, 19825-19832.	2.4	2
1182	Task Scheduling for Energy-Harvesting-Based IoT: A Survey and Critical Analysis. IEEE Internet of Things Journal, 2021, 8, 13825-13848.	5.5	59
1183	Learning nodes: machine learning-based energy and data management strategy. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	2
1184	Age of Information of Dual-Sensor Information Update System With HARQ Chase Combining and Energy Harvesting Diversity. IEEE Wireless Communications Letters, 2021, 10, 2027-2031.	3.2	12
1185	MaxTracker: Continuously Tracking the Maximum Computation Progress for Energy Harvesting ReRAM-based CNN Accelerators. Transactions on Embedded Computing Systems, 2021, 20, 1-23.	2.1	7
1186	Upper Bounds on Path Exposure in EH-WSNs with Variable Transmission Ranges. , 2021, , .		0
1187	Breach Path Detection Reliability in Energy Harvesting Wireless Sensor Networks. , 2021, , .		0

#	Article	IF	Citations
1188	Hierarchal Communication Architecture for Multi-level Energy Harvesting Support in Underwater Sensor Network. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 585-595.	0.5	0
1189	Energy-aware system design for batteryless LPWAN devices in IoT applications. Ad Hoc Networks, 2021, 122, 102625.	3.4	23
1190	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
1191	A Novel RF Energy Harvester for Event-Based Environmental Monitoring in Wireless Sensor Networks. IEEE Internet of Things Journal, 2022, 9, 3189-3203.	5.5	14
1192	Green Internet of Things (GIoT): Applications, Practices, Awareness, and Challenges. IEEE Access, 2021, 9, 38833-38858.	2.6	66
1193	Deep Reinforcement Learning Resource Allocation in Wireless Sensor Networks With Energy Harvesting and Relay. IEEE Internet of Things Journal, 2022, 9, 2330-2345.	5.5	12
1194	Learning-Based Joint Optimization of Energy Delay and Privacy in Multiple-User Edge-Cloud Collaboration MEC Systems. IEEE Internet of Things Journal, 2022, 9, 1491-1502.	5.5	23
1195	Energy-Positive Activity Recognition - From Kinetic Energy Harvesting to Smart Self-Sustainable Wearable Devices. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 926-937.	2.7	20
1196	Continuous Maneuver Control and Data Capture Scheduling of Autonomous Drone in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2022, 21, 2732-2744.	3.9	21
1197	Displacement Current-Based Energy Harvesters in Power Grids: Topologies and Performance Evaluation. IEEE Industrial Electronics Magazine, 2022, 16, 52-66.	2.3	8
1198	Probing Packet Retransmission Scheme in Underwater Optical Wireless Communication With Energy Harvesting. IEEE Access, 2021, 9, 34287-34297.	2.6	7
1199	A Game Changer: A Multifunctional Perovskite Exhibiting Giant Ferroelectricity and Narrow Bandgap with Potential Application in a Truly Monolithic Multienergy Harvester or Sensor. Advanced Materials, 2017, 29, 1700767.	11.1	100
1200	Energy Harvesting in Smart Cities. , 2020, , 1-27.		4
1201	Energy Harvesting in WSNs. Signals and Communication Technology, 2020, , 41-99.	0.4	2
1202	Internet of Things in Agricultural Innovation and Security. Internet of Things, 2020, , 71-112.	1.3	32
1203	Towards Enabling Uninterrupted Long-Term Operation of Solar Energy Harvesting Embedded Systems. Lecture Notes in Computer Science, 2014, , 66-83.	1.0	22
1204	RF Energy Harvesting Networks: Existing Techniques and Hardware Technology. , 2018, , 189-239.		2
1205	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

#	Article	IF	Citations
1206	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
1207	Predictive Retransmissions for Intermittently Connected Sensor Networks with Transmission Diversity. Transactions on Embedded Computing Systems, 2018, 17, 1-25.	2.1	4
1208	Intermittent Learning. , 2019, 3, 1-30.		21
1209	Estimating Energy Footprint Using Thermal Imaging. GetMobile (New York, N Y), 2020, 23, 5-8.	0.7	7
1210	Latency-efficient Data Collection Scheduling in Battery-free Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2020, 16, 1-21.	2.3	13
1211	Software Toolkits: Practical Aspects of the Internet of Thingsâ€"A Survey. International Journal of Distributed Sensor Networks, 2015, 11, 534378.	1.3	4
1212	Wireless Energy Harvesting for Cognitive Multihop Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 613165.	1.3	6
1213	Energy-Aware Hierarchical Topology Control for Wireless Sensor Networks with Energy-Harvesting Nodes. International Journal of Distributed Sensor Networks, 2015, 11, 617383.	1.3	7
1214	Minimizing the Number of Mobile Chargers to Keep Large-Scale WRSNs Working Perpetually. International Journal of Distributed Sensor Networks, 2015, 11, 782952.	1.3	11
1215	An Energy-Efficient Transmission Protocol for RNC-Based Cooperative WSNs with Partial Energy Harvesting Nodes. International Journal of Distributed Sensor Networks, 2015, 2015, 1-12.	1.3	2
1216	On Harvesting Energy from Tree Trunks for Environmental Monitoring. International Journal of Distributed Sensor Networks, 2016, 12, 9383765.	1.3	22
1217	Honey Bee Optimization based Sink Mobility Aware Heterogeneous Protocol for Wireless Sensor Network. Scalable Computing, 2019, 20, 591-598.	0.7	4
1218	Clustering Routing Algorithm in Self-energized Wireless Sensor Networks. Journal of Information and Computational Science, 2014, 11, 2183-2190.	0.1	2
1219	A Communication Model of Anycast in Rechargeable Wireless Sensor Networks for Forest Monitoring. Journal of Information and Computational Science, 2014, 11, 3893-3900.	0.1	1
1220	Dynamic Sensing-Rate Control Scheme Using a Selective Data-Compression for Energy-Harvesting Wireless Sensor Networks. IEMEK Journal of Embedded Systems and Applications, 2016, 11, 79-86.	0.0	3
1221	Energy-Aware Data Compression and Transmission Range Control Scheme for Energy-Harvesting Wireless Sensor Networks. IEMEK Journal of Embedded Systems and Applications, 2016, 11, 243-249.	0.0	1
1223	Effective Energy Restoration of Wireless Sensor Networks by a Mobile Robot. International Journal of Networking and Computing, 2020, 10, 62-83.	0.3	1
1224	Photovoltaic-assisted self-Vth-cancellation CMOS rectifier for synergistic RF energy harvesting. IEICE Electronics Express, 2020, 17, 20200186-20200186.	0.3	3

#	Article	IF	Citations
1225	Smart Energy Materials of PZT Ceramics. International Journal on Smart Material and Mechatronics, 2016, 2, 102-105.	0.2	2
1228	A distributed algorithm for semantic collectors election in wireless sensors networks. Journal of Applied Computing Research, 2013, 3, .	0.4	5
1229	Fuzzy-Topsis-Based Cluster Head Selection in Mobile Wireless Sensor Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2017, , 312-343.	0.3	2
1230	Role of Electronics Devices for E-Health in Smart Cities. Impact of Meat Consumption on Health and Environmental Sustainability, 2019, , 212-233.	0.4	2
1231	Fuzzy-Topsis-Based Cluster Head Selection in Mobile Wireless Sensor Networks. , 2020, , 596-627.		3
1232	An Architectural Layer Classification of Energy Conservation Techniques in Internet of Things. Advances in Business Information Systems and Analytics Book Series, 2020, , 270-307.	0.3	1
1233	Current Developments of Energy Scavenging, Converting and Storing in WSNs. International Journal of Computer Applications, 2015, 125, 6-12.	0.2	2
1237	WSN Design for Unlimited Lifetime. , 0, , .		3
1238	Solar Energy Harvesting Wireless Sensor Network Simulator. The Journal of the Korean Institute of Information and Communication Engineering, 2015, 19, 477-485.	0.1	4
1239	Sustainability-Oriented Macro Trends and Innovation Typesâ€"Exploring Different Organization Types Tackling the Global Sustainability Megatrend. Sustainability, 2021, 13, 11583.	1.6	2
1240	An optimization of a reconfigurable CPW antenna for RF energy harvesting cognitive radio application. Frequenz, 2021, .	0.6	0
1241	Recursive filtering for mobile robot localization under an energy harvesting sensor. Asian Journal of Control, 2022, 24, 2035-2048.	1.9	6
1242	Two-hop cognitive DF relaying with wireless power transfer in time and power domains. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	1
1243	SECURITY CHALLENGES FOR ENERGY-HARVESTING WIRELESS SENSOR NETWORKS. , 2012, , .		0
1245	Contemporary Developments in Wireless Sensor Networks. International Journal of Modern Education and Computer Science, 2012, 4, 1-13.	2.4	5
1246	A Solar Cell based Power Production and Supply Complying with the Active and Sleep Modes of Sensor MAC Protocols. The Journal of Korean Institute of Communications and Information Sciences, 2012, 37, 423-432.	0.0	0
1247	AplicaÃ§Ãµes Ambientais de Redes de Sensores Sem Fio. Revista De Tecnologia Da InformaÃ§Ã£o E ComunicaÃ§Ã£o, 2012, 2, 14-19.	0.1	7
1248	Adaptive Queue Management Scheme for Body Area Network with Energy Harvesting. , 2013, , .		0

#	Article	IF	Citations
1249	Modeling Energy Harvesting Sensors using Accelerometer in Body Sensor Networks. , 2013, , .		2
1251	Mutual Information Evaluation and Optimization of Intermittent Transmission Methods in Energy Harvesting Wireless Sensor Networks. IEICE Transactions on Communications, 2014, E97.B, 1826-1834.	0.4	1
1252	Solar Driven Wind Speed Monitoring System Using Wireless or Wired Sensors. Energy and Power Engineering, 2014, 06, 213-221.	0.5	1
1253	Dynamic Link Adaptation and Routing Protocols in Wireless Sensor Networks based on Energy Harvesting of MAC Protocols. International Journal of Computer Applications, 2014, 99, 22-28.	0.2	0
1254	An Optimal Replenishment Strategy in Energy Harvesting Wireless Networks with a Mobile Charger. , 2015, , .		1
1255	Information and Power Simultaneously Transmission in Space Shift Keying Modulation System with Antenna Selection. , 2015, , .		0
1256	Packet Loss Rate Analysis of Wireless Sensor Transmission with RF Energy Harvesting. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 620-630.	0.2	0
1257	Energy Efficient Scheme for Heterogeneous Wireless Sensor Networks: Research and Challenges. International Journal of Computer Applications, 2015, 120, 24-28.	0.2	0
1258	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
1259	Cluster-based Energy-aware Data Sharing Scheme to Support a Mobile Sink in Solar-Powered Wireless Sensor Networks. Journal of KIISE, 2015, 42, 1430-1440.	0.0	0
1260	Testing the Piezoelectric Energy Harvesterâ€™s Deflection on the Amount of Generated Energy. Advances in Intelligent Systems and Computing, 2016, , 95-112.	0.5	2
1261	Harvested Energy-Adaptive MAC Protocol for Energy Harvesting IOT Networks. , 2015, , .		2
1262	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
1263	Minimizing Confident Information Coverage Breach in Rechargeable Wireless Sensor Networks with Uneven Recharging Rates. Lecture Notes in Computer Science, 2016, , 213-228.	1.0	1
1264	Broadcast Data Delivery in IoT Networks with Packet Loss and Energy Constraint. The Journal of Korean Institute of Communications and Information Sciences, 2016, 41, 269-276.	0.0	3
1265	A Review on Renewable Energy Sources, Battery Replenishment Strategies, and Application-Specific Energy Challenges of Wireless Sensor Networks. , 2016, , 27-56.		0
1266	A Congestion Avoidance Scheme based on modules of Energy harvesting Sensor Networks. Journal of Security Engineering, 2016, 13, 169-182.	0.0	0
1267	A RF Energy Harvesting Based Routing Protocol in Mobile Ad-hoc Wireless Sensor Networks. Journal of the Institute of Electronics and Information Engineers, 2016, 53, 87-93.	0.0	0

#	Article	IF	Citations
1268	Link Quality Modeling for Energy Harvesting Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2017, , 669-678.	0.5	0
1269	A Comparative Survey of Energy Harvesting Techniques for Wireless Sensor Networks. , 2016, , .		4
1270	Green Cognitive Relay Communications with Hardware Impairments for Future Wireless Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2017, , 98-128.	0.3	0
1271	Redesigning Software and Systems for Nonvolatile Processors on Self-Powered Devices. , 2017, , 107-123.		0
1272	Energy-Harvesting Concrete. , 2017, , 379-390.		3
1273	Wireless Powered Sensor Networks. , 2018, , 241-270.		0
1274	Gait motion analysis using optical and inertial sensor fusion to design human kinetic energy harvesting systems. , 2017, , .		0
1275	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
1276	Energy Management Techniques for RF-Enabled Sensor Networks Based on Internet of Things. Lecture Notes in Electrical Engineering, 2018, , 53-63.	0.3	0
1277	Joint Optimal Power Allocation and Pre-Coding Design in MU-MIMO Network. Hans Journal of Wireless Communications, 2018, 08, 198-208.	0.0	0
1278	Improving energy usage in energy harvesting wireless sensor nodes using weather forecast. Telfor Journal, 2018, 10, 38-43.	0.7	1
1279	Dynamic Security Games with Extra Information. Springer Briefs in Electrical and Computer Engineering, 2018, , 25-42.	0.3	0
1280	GÃœNEÅž ENERJÄ°SÄ° KULLANAN SÄ°STEMLER Ä°Ã‡Ä°N YENÄ° BÄ°R ENERJÄ° TAHMÄ°N ALGORÄ°TMASI. UludaÄŸ University Journal of Faculty of Engineering, 2018, 23, 369-378.	0.2	2
1281	Leveraging RF Power for Intelligent Tag Networks. , 2018, , .		6
1282	Neuro Fuzzy DC-DC Converter. , 2018, , .		1
1283	Towards Energy-Efficient RF-Enabled Sensor Networks in Internet of Things. Advances in Intelligent Systems and Computing, 2019, , 205-215.	0.5	0
1284	Distributed Algorithms for MaximizingLifetime in Clustered Wireless SensorNetworks Using Energy-Harvesting RelayNod. Journal of Electronic Research and Application, 2018, 2, .	0.1	0
1285	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

#	Article	IF	Citations
1286	A Petri Net Modeling for WSN Sensors with Renewable Energy Harvesting Capability. Lecture Notes in Networks and Systems, 2020, , 524-534.	0.5	5
1287	Energy-Harvesting Sensors. Springer Optimization and Its Applications, 2020, , 245-255.	0.6	0
1288	A 3-Transistor Low Power Rectifier for Wideband RF Energy Harvesting with a Threshold Voltage Compensation Technique using 45 nm Technology. WSEAS Transactions on Circuits and Systems, 2020, 19, 75-83.	0.1	2
1289	The serverkernel operating system. , 2020, , .		0
1291	The Performance of Relay Communication Based on Energy Harvesting. , 2020, , .		0
1292	Towards wearable piezoelectric energy harvesting. , 2020, , .		12
1293	Generalized Stochastic Petri Nets Modelling for Energy Harvesting WSNs considering Neighbors with different Vicinity Levels. , 2020, , .		5
1294	Human Activity Recognition: A Dynamic Inductive Bias Selection Perspective. Sensors, 2021, 21, 7278.	2.1	5
1295	Wireless Powered Mobile Edge Computing: Dynamic Resource Allocation and Throughput Maximization. IEEE Transactions on Mobile Computing, 2022, 21, 2271-2288.	3.9	24
1296	Sturdy goals coverage for power harvesting Wi-Fi detector coterie. IOP Conference Series: Materials Science and Engineering, 0, 981, 022070.	0.3	5
1297	Performance Analysis of a SWIPT enabled Cognitive Radio Sensor Network using TS protocol. , 2020, , .		2
1298	Joint Resource Allocation Optimization Over Energy Harvesting Based 6G THz-Band Big-Data-Driven Nano-Networks. , 2020, , .		2
1299	Review of Energy Harvesting in LoRa based Wireless Sensor Network. , 2020, , .		5
1300	Adaptive Energy Management by Reinforcement Learning in Cluster-based Solar powered WSNs. , 2020, , .		5
1301	Average SER analysis of twoâ€hop WP DF relay system under Î²âˆ¼Î¼ shadowed fading. IET Communications, 2021, 15, 1-13.	1.5	0
1302	Packet Position Modulation. , 2020, , .		1
1303	Energy Modeling for Nanoscale Terahertz Communication. , 2020, , 419-424.		0
1304	Energy Harvesting Technologies and Market Opportunities. , 2020, , 1-18.		0

#	Article	IF	Citations
1305	Simultaneous Energy Harvesting and Gait Recognition Using Piezoelectric Energy Harvester. IEEE Transactions on Mobile Computing, 2022, 21, 2198-2209.	3.9	12
1306	Scheduled Optimal SDWSN Using Wireless Transfer of Power. IRO Journal on Sustainable Wireless Systems, 2020, 2, 23-32.	1.4	3
1307	Design and Analysis of a Modified TG Rectifier with Substrate Voltage Compensation Techniques at 45 nm Technology for High Frequency Low Power RF Energy Harvesting. WSEAS Transactions on Electronics, 2020, 11, 1-10.	0.2	1
1308	Multi-Source Hybrid Energy Harvesting Wireless Sensor Network Framework for Addressing Energy Unpredictability Issues. International Journal of Engineering Research in Africa, 0, 57, 225-241.	0.7	1
1309	High-Gain Simple Printed Dipole-Loop Antenna for RF-Energy Harvesting Applications. , 2020, , .		3
1310	Edge AI. , 2020, , .		7
1311	Computationâ€constrained spectrum sensing in IoTâ€based scenarios. IET Communications, 2020, 14, 3631-3638.	1.5	3
1312	Ember. , 2020, , .		16
1313	Is my sensor sleeping, hibernating, or broken?. , 2020, , .		0
1314	An Energy Efficient Architecture of self-sustainable WSN based on Energy Harvesting and Wireless Charging with Consideration of Deployment Cost. , 2020, , .		3
1315	Energy Harvesting Systems Need an Operating System Too. , 2020, , .		0
1316	Secure analysis on artificial-noise-aided simultaneous wireless information and power transfer systems. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 1651-1660.	1.5	0
1318	Secrecy outage analysis of imperfect MRC in SWIPT systems with a random eavesdropper. Physical Communication, 2020, 42, 101127.	1.2	1
1319	Quadrature Sandwich Rectenna for Wireless Power Transfer. WSEAS Transactions on Communications, 2020, 19, 173-178.	0.1	1
1320	Ultra-Low-Power IoT Communications: A Novel Address Decoding Approach for Wake-Up Receivers. IEEE Transactions on Green Communications and Networking, 2022, 6, 1107-1121.	3.5	5
1321	Thuáºt toÃ¡n Ä‘á»™ng Ä‘á»ƒ lá»±a chá»n tÃ¡c vá»¥ trong há»‡ thá»‘ng IoTS. , 2021, , 46-56.		0
1322	SmartON: Just-in-Time Active Event Detection on Energy Harvesting Systems. , 2021, , .		8
1323	An Energy-Efficient Strategy based on Q-Learning for Energy Harvesting-based Wireless Sensor Network. , 2021, , .		1

#	Article	IF	Citations
1324	Self-Powered Supercapacitor for Low Power Wearable device Applications. IOP Conference Series: Earth and Environmental Science, 2021, 850, 012016.	0.2	3
1325	Tolerant Distance and Alignment Deviation Analysis of LED-based Portable Optical Wireless Power Transmission System for Compact IoT. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 1274-1280.	0.1	1
1326	An Optically Transparent Metantenna for RF Wireless Energy Harvesting. IEEE Transactions on Antennas and Propagation, 2022, 70, 2550-2560.	3.1	9
1327	Deep Reinforcement Learning-Based Multidimensional Resource Management for Energy Harvesting Cognitive NOMA Communications. IEEE Transactions on Communications, 2022, 70, 3110-3125.	4.9	17
1328	Electromagnetic Nanocommunication Networks: Principles, Applications, and Challenges. IEEE Access, 2021, 9, 166147-166165.	2.6	5
1329	AI Models for Green Communications Towards 6G. IEEE Communications Surveys and Tutorials, 2022, 24, 210-247.	24.8	104
1330	Novel Tasks Assignment Methods for Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2022, 9, 10563-10575.	5.5	5
1331	Link Scheduling in Rechargeable Wireless Sensor Networks with Battery Memory Effects. , 2020, , .		0
1332	Bounding Path Exposure in Energy Harvesting Wireless Sensor Networks Using Pathsets and Cutsets. , 2020, , .		1
1333	Modified Clustering Algorithms for Energy Harvesting Wireless Sensor Networks- A Survey. , 2020, , .		3
1334	Analysis of EAMMH Protocol with Varying Base Station Position. , 2020, , .		0
1335	Ä‡á»u khiá»ƒn PID má»™t nÆ¡-ron há»“i quy há»‡ á»•n Ä‘á»‹nh Ã¡p suáº¥t Gunt-RT030. , 2021, , 57-64.		0
1336	Throughput Maximization in Full-Duplex Relay Network with Simultaneous Wireless Information and Power Transfer. , 2021, , .		1
1337	Efficient Wireless Static Chargers Deployment for UAV Networks. , 2021, , .		1
1338	Energy Efficient UAV Deployment with Optimized Path-Planning in Post-Disaster Environment. , 2021, , .		0
1339	Deep Reinforcement Learning Based Big Data Resource Management for 5G/6G Communications. , 2021, , .		2
1340	Enhanced Audit Bit Based Distributed Bayesian Detection in the Presence of Strategic Attacks. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 49-62.	1.6	6
1341	Self-powered energy-harvesting magnetic field sensor. Applied Physics Letters, 2022, 120, .	1.5	14

#	Article	IF	Citations
1342	Adaptive Data Collection Using UAV With Wireless Power Transfer for Wireless Rechargeable Sensor Networks. IEEE Access, 2022, 10, 9729-9743.	2.6	9
1343	Mobile Charging Strategy for Wireless Rechargeable Sensor Networks. Sensors, 2022, 22, 359.	2.1	9
1344	Energy Harvesting in wireless communication: A survey. E3S Web of Conferences, 2022, 336, 00074.	0.2	3
1345	ERPPM IoNT: Event Recognition using Pulse Position Modulation in Internet of Nano Things. Nano Communication Networks, 2022, 31, 100393.	1.6	6
1346	What limits the oscillationsâ€™ amplitude in the single-branch pulsating heat pipe. Nonlinear Dynamics, 2022, 108, 27-59.	2.7	5
1348	Hetero-interfaced films composed of solvothermally synthesized Bi2Te3 nanoplates covered with electrodeposited Bi2Se3 layers. Thin Solid Films, 2022, 741, 139032.	0.8	1
1349	A resilient outlier-resistant recursive filtering approach to time-delayed spatialâ€“temporal systems with energy harvesting sensors. ISA Transactions, 2022, 127, 41-49.	3.1	9
1350	Dual-line data collection scheme for efficient mobile sink operation in solar-powered wireless sensor networks. Sustainable Computing: Informatics and Systems, 2022, 34, 100659.	1.6	0
1351	Effect of microstructure on the electrical conductivity of p-type Feâ€“Alâ€“Si thermoelectric materials. Journal of Alloys and Compounds, 2022, 903, 163835.	2.8	5
1352	Recent Trends in Underwater Visible Light Communication (UVLC) Systems. IEEE Access, 2022, 10, 22169-22225.	2.6	72
1353	Orchestrating Virtual Network Functions in Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2022, 9, 15874-15885.	5.5	1
1354	On Increasing the Energy Efficiency of Wireless Rechargeable Sensor Networks for Cyber-Physical Systems. Energies, 2022, 15, 1204.	1.6	6
1355	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
1356	IoT-Based Continuous Glucose Monitoring System for Diabetic Patients Using Sensor Technology. Advanced Technologies and Societal Change, 2022, , 35-41.	0.8	7
1357	An Energy-Efficient Routing Algorithm Based on Greedy Strategy for Energy Harvesting Wireless Sensor Networks. Sensors, 2022, 22, 1645.	2.1	13
1358	Micro Energy Storage Systems in Energy Harvesting Applications: Analytical Evaluation towards Future Research Improvement. Micromachines, 2022, 13, 512.	1.4	0
1360	Piezoelectric-Driven Self-Powered Supercapacitor for Wearable Device Applications. , 0, , .		1
1362	Wireless power transfer and energy harvesting in distributed sensor networks: Survey, opportunities, and challenges. International Journal of Distributed Sensor Networks, 2022, 18, 155014772110677.	1.3	26

#	Article	IF	Citations
1363	Data Collecting and Energy Charging Oriented Mobile Path Design for Rechargeable Wireless Sensor Networks. Journal of Sensors, 2022, 2022, 1-14.	0.6	5
1364	Performance evaluation of multiuser Internet of Things wirelessâ€powered relaying networks with transceiver hardware imperfections over Nakagamiâ€m fading channels. International Journal of Communication Systems, 2022, 35, .	1.6	1
1365	A survey and experimental analysis of checkpointing techniques for energy harvesting devices. Journal of Systems Architecture, 2022, 126, 102464.	2.5	9
1366	Multistable vibration energy harvesters: Principle, progress, and perspectives. Journal of Sound and Vibration, 2022, 528, 116886.	2.1	92
1367	Stereolithography-Based Rectenna for Wireless Energy Harvesting. , 2021, , .		5
1368	Learning-based Distributed Detection with Energy Harvesting. , 2021, , .		3
1369	The Analysis of Magnetic Coupling Force to An Energy Harvester with Rotational Frequency Up-Conversion Structure. , 2021, , .		0
1370	Throughput Analysis of SWIPT-Enabled Multiuser IoT Networks With Hardware Imperfections Over Nakagami-m Fading Channels. , 2021, , .		0
1371	Ambient Energy Harvesting Chips for IoT End Devices: Review. , 2021, , .		5
1372	Selfâ€sustainable wireless sensor network for lowâ€temperature application. Microwave and Optical Technology Letters, 2022, 64, 305-311.	0.9	0
1373	Study on Structural Performance of Horizontal Axis Wind Turbine with Air Duct for Coal Mine. Energies, 2022, 15, 225.	1.6	2
1374	An Efficient Power Management System Using Dynamically Configured Multiple Triboelectric Nanogenerators and Dualâ€Parameter Maximum Power Point Tracking. Advanced Energy Materials, 2022, 12, .	10.2	8
1375	A Graduate Project on the Development of a Wearable Sensor Platform Powered by Harvested Energy. , 0, , .		0
1376	A Senior Student Design Project in Marine and Coastal Environment Monitoring. , 0, , .		0
1379	Energy harvest cognitive radio networks (EH-CRNs): A review paper. AIP Conference Proceedings, 2022, , .	0.3	0
1380	Achievable Rates and Resource Allocation for CDMA-Based Overlay Cognitive Radio With RF Energy Harvesting. IEEE Systems Journal, 2023, 17, 1137-1145.	2.9	1
1381	EICO: Energy-Harvesting Long-Range Environmental Sensor Nodes With Energy-Information Dynamic Co-Optimization. IEEE Internet of Things Journal, 2022, 9, 20932-20944.	5.5	3
1382	Reinvestigation of the thermoelectric properties of Feâ€substituted icosahedral Alâ€'Pdâ€'Re quasicrystals. Physica Status Solidi (A) Applications and Materials Science, 0, , .	0.8	1

#	Article	IF	Citations
1383	Recent trends in clustering algorithms for wireless sensor networks: A comprehensive review. Computer Communications, 2022, 191, 395-424.	3.1	13
1386	A Bulk Current Regulation Technique for Dual-Branch Cross-Coupled Charge Pumps. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4128-4132.	2.2	6
1387	Relay Selection for Energy Harvesting Relays With Energy Prioritization and Inter-Relay Charging. IEEE Transactions on Vehicular Technology, 2022, 71, 10646-10655.	3.9	5
1388	Notice of Removal: An Improved Equal Hierarchical Cluster-Based Routing Protocol for EH-WSNs to Enhance Balanced Utilization of Harvested Energy. IEEE Access, 2022, 10, 67081-67095.	2.6	2
1389	Distributed State Estimation Over Wireless Sensor Networks With Energy Harvesting Sensors. IEEE Transactions on Cybernetics, 2023, 53, 3311-3324.	6.2	13
1390	Three-Tier Computing Platform Optimization: A Deep Reinforcement Learning Approach. Mobile Information Systems, 2022, 2022, 1-16.	0.4	0
1391	Employing an Energy Harvesting Strategy to Enhance the Performance of a Wireless Emergency Network. Sensors, 2022, 22, 4385.	2.1	4
1392	Joint optimization of energy harvesting and information transmission for trapped user. Wireless Networks, 2022, 28, 2937-2950.	2.0	2
1393	Dynamic Offloading and Trajectory Control for UAV-Enabled Mobile Edge Computing System With Energy Harvesting Devices. IEEE Transactions on Wireless Communications, 2022, 21, 10515-10528.	6.1	10
1394	Collaborative Sensing in Internet of Things: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2022, 24, 1435-1474.	24.8	52
1395	A Survey on Mobile Charging Techniques in Wireless Rechargeable Sensor Networks. IEEE Communications Surveys and Tutorials, 2022, 24, 1750-1779.	24.8	28
1396	A Highly Adaptive and Flipping-Time Optimized Piezoelectric Energy Harvesting Interface IC With Synchronized Triple Bias-Flip. IEEE Transactions on Power Electronics, 2022, 37, 14981-14992.	5.4	4
1397	A 1.2 ÂµW â€“ 132 mW, 92% Peak Efficiency, All-in-One Power Management IC for Heterogeneous Combining a Single Shared inductor. , 2022, , .		1
1398	Sensor Network and Energy Harvesting Solutions Towards Water Quality Monitoring in Developing Countries. Wireless Personal Communications, 2022, 127, 2761-2779.	1.8	3
1399	On the implementation of in-pixel controlled diodes with sensing and energy harvesting capabilities. , 2022, , .		1
1400	Optimal Information Update for Energy Harvesting Sensor with Reliable Backup Energy. Entropy, 2022, 24, 961.	1.1	1
1401	Performance Analysis of a Prediction-Sensing Based Cooperative Energy Harvesting CRN Over Rician Fading Channels. Wireless Personal Communications, 2022, 127, 3637-3658.	1.8	2
1403	RF Information Harvesting for Medium Access in Event-driven Batteryless Sensing. , 2022, , .		0

#	Article	IF	Citations
1404	Approximation Designs for Energy Harvesting Relay Deployment in Wireless Sensor Networks. Journal of Computer Science and Technology, 2022, 37, 779-796.	0.9	0
1405	Electromagnetic Vibrational Energy Harvesters: A Review. Sensors, 2022, 22, 5555.	2.1	33
1406	TDMA policy to optimize resource utilization in Wireless Sensor Networks using reinforcement learning for ambient environment. Computer Communications, 2022, 195, 162-172.	3.1	1
1407	Wearable Piezoelectric Energy Harvesting From Human Gait: Modeling and Experimental Validation. IEEE Sensors Journal, 2022, 22, 16617-16627.	2.4	6
1408	On Slicing Weighted Energy-Harvesting Wireless Sensing Networks with Transmission Range Uncertainty. , 2022, , .		0
1409	Strategic access in a Green IoT(Internet of Things) system with an unreliable server. Performance Evaluation, 2022, 157-158, 102314.	0.9	2
1410	Federated Learning Over Wireless Channels: Dynamic Resource Allocation and Task Scheduling. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1910-1924.	4.9	5
1411	An Agenda on the Employment of AI Technologies in Port Areas: The TEBETS Project. Lecture Notes in Computer Science, 2022, , 633-647.	1.0	0
1412	Automating and Optimizing Reliability-Driven Deployment in Energy-Harvesting IoT Networks. IEEE Transactions on Network and Service Management, 2023, 20, 787-799.	3.2	0
1413	Vibration energy harvesters for sensing applications. , 2022, , 369-394.		0
1414	A novel hybrid backscatter and conventional algorithm for multiâ€hop Internet of Things networks. Transactions on Emerging Telecommunications Technologies, 0, , .	2.6	1
1415	Transient computing for energy harvesting systems: A survey. Journal of Systems Architecture, 2022, 132, 102743.	2.5	4
1416	SMAC-Based WSN Protocol-Current State of the Art, Challenges, and Future Directions. Journal of Computer Networks and Communications, 2022, 2022, 1-29.	1.2	3
1417	Blockchain-Enabled Task Offloading With Energy Harvesting in Multi-UAV-Assisted IoT Networks: A Multi-Agent DRL Approach. IEEE Journal on Selected Areas in Communications, 2022, 40, 3517-3532.	9.7	21
1418	On Complete Targets Coverage in Rechargeable IoT Networks: A Message-Passing Approach. IEEE Internet of Things Journal, 2023, 10, 2483-2493.	5.5	1
1419	SLIPT-Enabled Multi-LED MU-MISO VLC Networks: Joint Beamforming and DC Bias Optimization. IEEE Transactions on Green Communications and Networking, 2023, 7, 1104-1120.	3.5	5
1420	An Improved Solar Low Energy Adaptive Clustering Hierarchy (IS-LEACH) Technique. , 2016, 8, .		0
1421	Rank Based Adaptive Algorithm for Route Generation in Multi Source Energy Harvesting Wireless Sensor Network. , 2022, , .		1

#	Article	IF	Citations
1422	Radiofrequency Energy Harvesting Systems for Internet of Things Applications: A Comprehensive Overview of Design Issues. Sensors, 2022, 22, 8088.	2.1	12
1423	Multi-Objective Resource Scheduling for IoT Systems Using Reinforcement Learning. Journal of Low Power Electronics and Applications, 2022, 12, 53.	1.3	2
1424	Energy Harvesting Methods for Transmission Lines: A Comprehensive Review. Applied Sciences (Switzerland), 2022, 12, 10699.	1.3	11
1425	A Planar Orbicular Rectenna Array System With 3-D Uniform Coverage for Wireless Powering of IoT Nodes. IEEE Transactions on Microwave Theory and Techniques, 2023, 71, 1366-1373.	2.9	2
1426	Computation Offloading for Rechargeable Users in Space-Air-Ground Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 3805-3818.	3.9	6
1427	A Wireless-Powered Relaying System with Energy Buffer for Implant WBAN. , 2022, , .		0
1428	Electrical Response Analysis of a Piezoelectric Energy Harvester Power Source Based on Electromechanical Parameters. Electronics (Switzerland), 2022, 11, 3697.	1.8	2
1429	Maximizing Average Throughput of Cooperative Cognitive Radio Networks Based on Energy Harvesting. Sensors, 2022, 22, 8921.	2.1	0
1430	Opportunistic Routing-Aided Cooperative Communication Network With Energy Harvesting. IEEE Internet of Things Journal, 2023, 10, 6928-6945.	5.5	2
1431	Secrecy Rate Maximization for Multicarrier-Based Cognitive Radio Networks With an Energy Harvesting Jammer. IEEE Sensors Journal, 2023, 23, 3220-3232.	2.4	1
1432	A Survey on LoRa for Smart Agriculture: Current Trends and Future Perspectives. IEEE Internet of Things Journal, 2023, 10, 3664-3679.	5.5	22
1433	A Planar Integrated Rectenna Array With 3-D-Spherical DC Coverage for Orientation-Tolerant Wireless-Power-Transfer-Enabled IoT Sensor Nodes. IEEE Transactions on Antennas and Propagation, 2023, 71, 1285-1294.	3.1	4
1434	Impact of solid and hollow bluff bodies on the performance and dynamics of flag-based energy harvester. Sustainable Energy Technologies and Assessments, 2023, 55, 102882.	1.7	1
1435	Design criteria for enhanced energy constraint MAC protocol for WSN. Measurement: Sensors, 2023, 25, 100642.	1.3	2
1436	Secure MIMO systems with nonlinear energy harvesting using optimal transmit antenna selection over <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1096" altimg="si3.svg"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo linebreak="goodbreak" linebreakstyle="after">â^’</mml:mo><mml:mi>Î³</mml:mi></mml:mrow></mml:math>Âfading channels. Physical Communication, 2023, 57, 101969.	1.2	0
1437	An Adaptive Energy Efficient MAC Protocol for RF Energy Harvesting WBANs. IEEE Transactions on Communications, 2023, 71, 473-484.	4.9	9
1439	A Bayesian Game of Multisource Energy Harvesting for Batteryless IoT Devices. , 2022, , .		0
1440	Thermo-phototronic Effect for Self-Powered Photodetector using n-3C-SiC/p-Si Heterostructure. , 2022, , .		1

#	Article	IF	Citations
1441	High-Accuracy and Long-Range Energy Harvesting Beat Sensor with LoRa. , 2022, , .		1
1442	Real-Time Scheduling of DAG Tasks in Self-Powered Sensors with Scavenged Energy. , 2022, , .		0
1443	Characteristics of Dye-Sensitized Solar Cell under PWM Illumination: Toward Indoor Light-Energy Harvesting in the Solid-State Lighting Era. Energies, 2022, 15, 9553.	1.6	2
1444	Energy Sustainability in Wireless Sensor Networks: An Analytical Survey. Journal of Low Power Electronics and Applications, 2022, 12, 65.	1.3	10
1445	Control Strategies of Hybrid Energy Harvestingâ€"A Survey. Sustainability, 2022, 14, 16670.	1.6	1
1446	Self-Powered Long-Life Microsystem for Vibration Sensing and Target Recognition. Sensors, 2022, 22, 9594.	2.1	4
1447	Transmission Power Control in Wireless Sensor Networks Using Fuzzy Adaptive Data Rate. Sensors, 2022, 22, 9963.	2.1	5
1448	Wireless Powered Mobile Edge Computing Networks: A Survey. ACM Computing Surveys, 2023, 55, 1-37.	16.1	32
1449	A Near-Optimal Energy Management Mechanism Considering QoS and Fairness Requirements in Tree Structure Wireless Sensor Networks. Sensors, 2023, 23, 763.	2.1	3
1450	Trajectory optimization of laser-charged UAV to minimize the average age of information for wireless rechargeable sensor network. Theoretical Computer Science, 2023, 945, 113680.	0.5	2
1451	Numerical investigations on extraction effect for steam condensation in the presence of air. Progress in Nuclear Energy, 2023, 157, 104573.	1.3	3
1452	Long rangeâ€based lowâ€power wireless sensor node. ETRI Journal, 0, , .	1.2	0
1453	A Comprehensive Study of Solar Energy Harvesting System in Wireless Sensor Networks. , 2022, , .		0
1454	An Efficient Dielectric Resonator Antenna for Dual-Band Dual-Polarized RFEH Applications in Smart City Environment. , 2022, , .		0
1455	RF energy harvesting. , 2023, , 127-153.		0
1456	Deep-Q-Network-Based Packet Scheduling in an IoT Environment. Sensors, 2023, 23, 1339.	2.1	4
1457	Performance of Wireless Powered Communication Systems Over Beaulieu-Xie Channels With Nonlinear Energy Harvesters. IEEE Open Journal of the Communications Society, 2023, 4, 456-463.	4.4	3
1458	Novel Task Scheduling Approaches in Energy Sharing Solar-Powered IoT Networks. IEEE Internet of Things Journal, 2023, 10, 10970-10982.	5.5	2

#	Article	IF	Citations
1459	Temporal-Spatial-Frequency Resource Allocation. Wireless Networks, 2023, , 33-70.	0.3	0
1460	Performance investigation and parameter identification of inverse variable cross-section energy harvester. International Journal of Mechanical Sciences, 2023, 248, 108204.	3.6	7
1461	Network-aware RF-energy harvesting for designing energy efficient IoT networks. Internet of Things (Netherlands), 2023, 22, 100770.	4.9	7
1462	Power management for supply of IoT Systems. , 2022, , .		2
1463	Blockchain Enabled Credible Energy Trading at the Edge of the Internet of Things. Mathematics, 2023, 11, 630.	1.1	1
1464	Controlling chaos in bi-stable energy harvesting systems using delayed feedback control. Meccanica, 2023, 58, 587-606.	1.2	3
1465	A new Mobility and Energy Harvesting aware Medium Access Control (MEH-MAC) protocol: Modelling and performance evaluation. Ad Hoc Networks, 2023, 142, 103108.	3.4	1
1466	Application of Thermoelectric Generators for Low-Temperature-Gradient Energy Harvesting. Applied Sciences (Switzerland), 2023, 13, 2603.	1.3	5
1467	Parametric aerodynamic and aeroelastic study of a deformable flag-based energy harvester for powering low energy devices. Energy Conversion and Management, 2023, 280, 116846.	4.4	6
1468	Energy security of sensor networks. AIP Conference Proceedings, 2023, , .	0.3	0
1469	Mechatronics-enabled harvesting of polarized wind kinetic energy through novel bio-mimetic swaying devices. Renewable Energy, 2023, 211, 743-760.	4.3	1
1470	One-Dimensional Maximum Power Point Tracking Design of Switched-Capacitor Charge Pumps for Thermoelectric Energy Harvesting. Electronics (Switzerland), 2023, 12, 1203.	1.8	4
1471	FPGA-based DNN Hardware Accelerator for Sensor Network Aggregation Node. , 2022, , .		1
1472	Interweaving Real-Time Jobs withÂEnergy Harvesting toÂMaximize Throughput. Lecture Notes in Computer Science, 2023, , 305-316.	1.0	1
1473	Green IoT: A Review and Future Research Directions. Symmetry, 2023, 15, 757.	1.1	27
1474	An Energy-Efficient Communication Protocol for Power-Constrained IoT Networks: A Deep Reinforcement Learning Approach. , 2023, , .		0
1475	Energy efficient quality routing protocol for WSNs. I-managerâ€™s Journal on Wireless Communication Networks, 2022, 11, 9.	0.5	0
1476	A Study on Energy Management for Low-Power IoT Devices. , 2023, , 1-24.		1

#	Article	IF	Citations
1477	A Hybrid Micro Energy Harvester based on Photovoltaic and Vibration Energy. , 2022, , .		0
1478	Multi-Input SECE Circuit with Isolated Active Rectifier for Piezoelectric Energy Harvesting. IEICE Electronics Express, 2023, , .	0.3	0
1479	A Reviewâ€“Unguided Optical Communications: Developments, Technology Evolution, and Challenges. Electronics (Switzerland), 2023, 12, 1922.	1.8	6
1481	Amalgamated Intermittent Computing Systems. , 2023, , .		2
1483	Optimized High-efficiency Multi-band RF Energy Harvester. , 2023, , .		1
1487	RAB: Recomputation Aided Backup for Energy Efficient Non-volatile Processors. , 2023, , .		1
1489	Using Ambient Energy to Power IoT Sensors. Green Energy and Technology, 2023, , 29-51.	0.4	0
1490	Photovoltaic Cells for Energy Harvesting and Step Counting. , 2023, , .		0
1493	EH-Enabled Distributed Detection Over Temporally Correlated Markovian MIMO Channels. , 2023, , .		0
1494	Modeling and Optimization of Magnetic Energy Harvesters with Field Shaping Capacitors for Energy Ethernet Applications. , 2022, , .		0
1495	AI/ML for Computation Offloading. , 2023, , 111-157.		0
1502	Evaluating the Lifetimes of Energy-Harvesting Wireless Sensor Networks with ALOHA. , 0, , .		0
1504	Energy-Efficient Scheduling and Resource Allocation for Power-limited Cognitive IoT Devices. , 2023, , .		0
1509	Throughput Optimization for Mobile Nodes With Wireless Energy Harvesting in Cellular Networks. , 2023, , .		0
1511	A state-of-art of sustainable building materials as an alternative for green construction. AIP Conference Proceedings, 2023, , .	0.3	0
1514	A 2-Competitive Online Algorithm for Mobile Charger Path Planning in Wireless RechargeableSensor Networks. , 2023, , .		0
1516	A Hybrid Thermoelectric Generator â€“ Battery Power Supply System Toward Replacement-Free Battery. , 2023, , .		1
1521	IoT-Based Energy Harvesting and Future Research Trends in Wireless Sensor Networks. Advances in Electronic Government, Digital Divide, and Regional Development Book Series, 2023, , 282-306.	0.2	2

#	Article	IF	Citations
1522	Optimal Time and Power Allocation in Full-Duplex Wireless-Powered Cognitive Radio Networks. , 2023, , .		0
1524	A Survey of Embedded Machine Learning for Smart and Sustainable Healthcare Applications. , 2024, , 127-150.		0
1525	Outage analysis for wireless-powered relaying radio frequency-underwater wireless optical communication systems. , 2023, , .		0
1529	Electromechanical interaction analysis of piezoelectric cantilevered beam. AIP Conference Proceedings, 2023, , .	0.3	0
1530	Solar Energy Harvesting Node for Battery-Free Physiological Monitoring Wearable Wristband[*]. , 2023, , .		0
1531	An Energy-Efficient Current Measurement Method for Wireless Sensors. , 2023, , .		0
1542	An Electret Energy Harvester for Kinetic Energy at Ultra-Low Frequency. , 2023, , .		0
1544	Modeling and Characterization of a Hydroelectric Transducer for Energy Harvesting Applications. , 2023, , .		0
1545	1800 MHz and 2.45 GHz Antennas for RF Energy Harvesting Applications. , 2023, , .		0