

## List of Publications by Citations

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

85  
papers

2,674  
citations

22  
h-index

51  
g-index

89  
ext. papers

3,773  
ext. citations

6.4  
avg, IF

6.21  
L-index

#	Paper	IF	Citations
85	Smart Factory of Industry 4.0: Key Technologies, Application Case, and Challenges. <i>IEEE Access</i> , <b>2018</b> , 6, 6505-6519	3.5	460
84	Security and Privacy in Fog Computing: Challenges. <i>IEEE Access</i> , <b>2017</b> , 5, 19293-19304	3.5	302
83	Survey of Fog Computing: Fundamental, Network Applications, and Research Challenges. <i>IEEE Communications Surveys and Tutorials</i> , <b>2018</b> , 20, 1826-1857	37.1	283
82	Toward Smart Wireless Communications via Intelligent Reflecting Surfaces: A Contemporary Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2020</b> , 22, 2283-2314	37.1	216
81	Incipient Fault Diagnosis of Roller Bearing Using Optimized Wavelet Transform Based Multi-Speed Vibration Signatures. <i>IEEE Access</i> , <b>2017</b> , 5, 19442-19456	3.5	114
80	Internet of Things for Disaster Management: State-of-the-Art and Prospects. <i>IEEE Access</i> , <b>2017</b> , 5, 188183-188351	3.5	114
79	. <i>IEEE Access</i> , <b>2020</b> , 8, 32031-32053	3.5	107
78	From Industry 4.0 to Agriculture 4.0: Current Status, Enabling Technologies, and Research Challenges. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 4322-4334	11.9	104
77	Internet of Things for the Future of Smart Agriculture: A Comprehensive Survey of Emerging Technologies. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2021</b> , 8, 718-752	7	89
76	A Survey on Smart Agriculture: Development Modes, Technologies, and Security and Privacy Challenges. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2021</b> , 8, 273-302	7	61
75	EdgeCare: Leveraging Edge Computing for Collaborative Data Management in Mobile Healthcare Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 22011-22025	3.5	45
74	A New Bearing Fault Diagnosis Method Based on Fine-to-Coarse Multiscale Permutation Entropy, Laplacian Score and SVM. <i>IEEE Access</i> , <b>2019</b> , 7, 17050-17066	3.5	42
73	An Uneven Cluster-Based Mobile Charging Algorithm for Wireless Rechargeable Sensor Networks. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 3747-3758	4.3	41
72	Entropy Measures in Machine Fault Diagnosis: Insights and Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 2607-2620	5.2	40
71	A Distributed Mobile Fog Computing Scheme for Mobile Delay-Sensitive Applications in SDN-Enabled Vehicular Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 5481-5493	6.8	38
70	Parked Vehicle Edge Computing: Exploiting Opportunistic Resources for Distributed Mobile Applications. <i>IEEE Access</i> , <b>2018</b> , 6, 66649-66663	3.5	36
69	A Survey of Using Swarm Intelligence Algorithms in IoT. <i>Sensors</i> , <b>2020</b> , 20,	3.8	34

68	The Performance Evaluation of Blockchain-based Security and Privacy Systems for the Internet of Things: A Tutorial. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	31
67	Optimization Algorithms for Multiaccess Green Communications in Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 1739-1748	10.7	30
66	Path-Loss-Based Fingerprint Localization Approach for Location-Based Services in Indoor Environments. <i>IEEE Access</i> , <b>2017</b> , 5, 13756-13769	3.5	29
65	Deep Learning-Based Intrusion Detection for Distributed Denial of Service Attack in Agriculture 4.0. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1257	2.6	26
64	BLTM: Beta and LQI Based Trust Model for Wireless Sensor Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 43679-43690	3.5	25
63	A Review of Plant Phenotypic Image Recognition Technology Based on Deep Learning. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 81	2.6	22
62	Poster abstract: Traffic flow prediction with big data: A deep learning based time series model <b>2017</b> ,		20
61	Extended Crossover Model for Human-Control of Fractional Order Plants. <i>IEEE Access</i> , <b>2017</b> , 5, 27622-27635	3.5	20
60	Internet of Things for Noise Mapping in Smart Cities: State of the Art and Future Directions. <i>IEEE Network</i> , <b>2020</b> , 34, 112-118	11.4	18
59	Energy-Efficient Barrier Coverage With Probabilistic Sensors in Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 5624-5633	4	17
58	Comparative evaluation of bone chars derived from bovine parts: Physicochemical properties and copper sorption behavior. <i>Science of the Total Environment</i> , <b>2020</b> , 700, 134470	10.2	17
57	An SDN Architecture for AUV-Based Underwater Wireless Networks to Enable Cooperative Underwater Search. <i>IEEE Wireless Communications</i> , <b>2020</b> , 27, 132-139	13.4	15
56	A Partition-Based Node Deployment Strategy in Solar Insecticidal Lamps Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 11223-11237	10.7	14
55	Insights into the improvement of the enzymatic hydrolysis of bovine bone protein using lipase pretreatment. <i>Food Chemistry</i> , <b>2020</b> , 302, 125199	8.5	14
54	EcoVibe: On-Demand Sensing for Railway Bridge Structural Health Monitoring. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 1068-1078	10.7	13
53	EcoSense: A Hardware Approach to On-Demand Sensing in the Internet of Things <b>2016</b> , 54, 37-43		13
52	A Mechanism Filling Sensing Holes for Detecting the Boundary of Continuous Objects in Hybrid Sparse Wireless Sensor Networks. <i>IEEE Access</i> , <b>2017</b> , 5, 7922-7935	3.5	12
51	Self-adaptive fault diagnosis of roller bearings using infrared thermal images <b>2017</b> ,		11

50	When Sensor-Cloud Meets Mobile Edge Computing. <i>Sensors</i> , <b>2019</b> , 19,	3.8	11
49	High Voltage Discharge Exhibits Severe Effect on ZigBee-Based Device in Solar Insecticidal Lamps Internet of Things. <i>IEEE Wireless Communications</i> , <b>2020</b> , 27, 140-145	13.4	10
48	MCTE: Minimizes Task Completion Time and Execution Cost to Optimize Scheduling Performance for Smart Grid Cloud. <i>IEEE Access</i> , <b>2019</b> , 7, 134793-134803	3.5	9
47	Boundary Tracking of Continuous Objects Based on Binary Tree Structured SVM for Industrial Wireless Sensor Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 1-1	4.6	9
46	A Novel Class Noise Detection Method for High-Dimensional Data in Industrial Informatics. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 2181-2190	11.9	9
45	. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 13095-13114	10.7	9
44	MCRA: A Multi-Charger Cooperation Recharging Algorithm Based on Area Division for WSNs. <i>IEEE Access</i> , <b>2017</b> , 5, 15380-15389	3.5	8
43	A fog computing-based framework to reduce traffic overhead in large-scale industrial applications <b>2017</b> ,		7
42	Demo Abstract: High Voltage Discharge Exhibits Severe Effect on ZigBee-based Device in Solar Insecticidal Lamps Internet of Things <b>2020</b> ,		7
41	Improved Coverage and Connectivity via Weighted Node Deployment in Solar Insecticidal Lamp Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 10170-10186	10.7	7
40	. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-12	4.3	7
39	Multi-Target Intense Human Motion Analysis and Detection Using Channel State Information. <i>Sensors</i> , <b>2018</b> , 18,	3.8	7
38	A novel FTIR discrimination based on genomic DNA for species-specific analysis of meat and bone meal. <i>Food Chemistry</i> , <b>2019</b> , 294, 526-532	8.5	6
37	Harvest Energy from the Water. <i>Transactions on Embedded Computing Systems</i> , <b>2018</b> , 17, 1-24	1.8	6
36	Optimal Design of Beacon Array for Long Baseline Positioning System Used in Manned Deep-Sea Submersibles. <i>IEEE Access</i> , <b>2019</b> , 7, 140411-140420	3.5	5
35	Physical Security and Safety of IoT Equipment: A Survey of Recent Advances and Opportunities. <i>IEEE Transactions on Industrial Informatics</i> , <b>2022</b> , 1-1	11.9	5
34	Cyber Security Intrusion Detection for Agriculture 4.0: Machine Learning-Based Solutions, Datasets, and Future Directions. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2022</b> , 9, 407-436	7	5
33	ArvaNet: Deep Recurrent Architecture for PPG-Based Negative Mental-State Monitoring. <i>IEEE Transactions on Computational Social Systems</i> , <b>2021</b> , 8, 179-190	4.5	5

32	A Multi-sensor Information Fusion Method for High Reliability Fault Diagnosis of Rotating Machinery. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	4
31	Edge Permutation Entropy: An Improved Entropy Measure for Time-Series Analysis <b>2019</b> ,		4
30	STC: an intelligent trash can system based on both NB-IoT and edge computing for smart cities. <i>Enterprise Information Systems</i> , <b>2020</b> , 14, 1422-1438	3.5	4
29	Cross-layer cooperative multichannel medium access for internet of things. <i>Peer-to-Peer Networking and Applications</i> , <b>2018</b> , 11, 504-517	3.1	3
28	Sleep scheduling for critical nodes in group-based industrial wireless sensor networks <b>2017</b> ,		3
27	Energy utilization concerned sleep scheduling in Wireless Powered Communication Networks <b>2017</b> ,		3
26	A Robust Security Framework based on Blockchain and SDN for Fog Computing enabled Agricultural Internet of Things <b>2020</b> ,		3
25	Poster Abstract: Insecticidal Performance Simulation of Solar Insecticidal Lamps Internet of Things Using the Number of Falling Edge Trigger <b>2021</b> ,		3
24	SMPKR: Search Engine for Internet of Things. <i>IEEE Access</i> , <b>2019</b> , 7, 163615-163625	3.5	3
23	Low Cost Sensor to Measure Solid Concentrations in Wastewater <b>2018</b> ,		3
22	RM-MAC: A routing-enhanced multi-channel MAC protocol in duty-cycle sensor networks <b>2015</b> ,		2
21	Lightweight flow management for software-defined wireless sensor networks with link fault in data plane <b>2017</b> ,		2
20	Dynamic adaptation of duty cycling with MAC parameters in cluster tree IEEE 802.15.4 networks <b>2017</b> ,		2
19	Soybean Yield Preharvest Prediction Based on Bean Pods and Leaves Image Recognition Using Deep Learning Neural Network Combined With GRNN.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 791256	6.2	2
18	UAV Assisted Sleep Scheduling Algorithm for Energy-Efficient Data Collection in Agricultural Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	2
17	The Impact of the Physical Layer on the Performance of Concurrent Transmissions <b>2020</b> ,		2
16	Predictive Boundary Tracking based on Motion Behavior Learning for Continuous Objects in Industrial Wireless Sensor Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 1-1	4.6	2
15	UAV-assisted connectivity enhancement algorithms for multiple isolated sensor networks in agricultural Internet of Things. <i>Computer Networks</i> , <b>2022</b> , 207, 108854	5.4	2

14	Two-Hop Energy Consumption Balanced Routing Algorithm for Solar Insecticidal Lamp Internet of Things.. <i>Sensors</i> , <b>2021</b> , 22,	3.8	2
13	Guest Editorial Special Issue on Multimedia Services Provision Over Future Mobile Computing Systems. <i>IEEE Systems Journal</i> , <b>2018</b> , 12, 12-15	4.3	1
12	A comparative study of WPD and EMD for shaft fault diagnosis <b>2017</b> ,		1
11	Impact of synchronization scheme on duty cycling in IEEE 802.15.4 cluster tree networks <b>2017</b> ,		1
10	Distributed Congestion Mitigation and Medium Access in Duty Cycling Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , <b>2014</b> , 10, 748264	1.7	1
9	Target-Barrier Coverage Improvement in an Insecticidal Lamps Internet of UAVs. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	1
8	. <i>IEEE Industrial Electronics Magazine</i> , <b>2021</b> , 15, 52-64	6.2	1
7	Enabling Efficient Model-Free Control of Large-Scale Canals by Exploiting Domain Knowledge. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 8730-8742	8.9	1
6	. <i>IEEE Access</i> , <b>2021</b> , 9, 63740-63744	3.5	1
5	SA1D-CNN: A Separable and Attention Based Lightweight Sensor Fault Diagnosis Method for Solar Insecticidal Lamp Internet of Things. <i>IEEE Open Journal of the Industrial Electronics Society</i> , <b>2022</b> , 1-1	3.6	1
4	A Partition-based Mobile Crowd Sensing-enabled Task Allocation for Solar Insecticidal Lamp Internet of Things Maintenance. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	1
3	Online Reconfiguration of Latency-Aware IoT Services in Edge Networks. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	0
2	Tea Chrysanthemum Detection by Leveraging Generative Adversarial Networks and Edge Computing.. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 850606	6.2	0
1	Improvement of Detection and Localization Performance Using the Receiving Array Response Difference Between Ocean Noise and Signal in Shallow Water. <i>IEEE Access</i> , <b>2019</b> , 7, 98474-98485	3.5	