

Abraham O Fapojuwo

List of Publications by Year in descending order

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100
papers

1,395
citations

394421

19
h-index

377865

34
g-index

100
all docs

100
docs citations

100
times ranked

1633
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Enabling Technologies of Low Power and Long Range Machine-to-Machine Communications. IEEE Communications Surveys and Tutorials, 2017, 19, 2621-2639.	39.4	163
2	A Survey of Energy Efficient Resource Management Techniques for Multicell Cellular Networks. IEEE Communications Surveys and Tutorials, 2014, 16, 154-180.	39.4	130
3	TDMA Scheduling with Optimized Energy Efficiency and Minimum Delay in Clustered Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2010, 9, 927-940.	5.8	115
4	A Survey of System Architecture Requirements for Health Care-Based Wireless Sensor Networks. Sensors, 2011, 11, 4875-4898.	3.8	75
5	A new call admission control method for providing desired throughput and delay performance in IEEE802.11e wireless LANs. IEEE Transactions on Wireless Communications, 2007, 6, 701-709.	9.2	60
6	Analysis of Common Radio Resource Management Scheme for End-to-End QoS Support in Multiservice Heterogeneous Wireless Networks. IEEE Transactions on Vehicular Technology, 2008, 57, 2426-2439.	6.3	58
7	Radio Frequency Energy Harvesting and Data Rate Optimization in Wireless Information and Power Transfer Sensor Networks. IEEE Sensors Journal, 2017, 17, 4862-4874.	4.7	54
8	Stochastic processes for computer network traffic modeling. Computer Communications, 2005, 29, 1-23.	5.1	46
9	Performance Analysis and Parameter Optimization of Random Access Backoff Algorithm in LTE. , 2012, , .		46
10	Vehicle Trajectory Prediction with Gaussian Process Regression in Connected Vehicle Environment\$star\$. , 2018, , .		38
11	On the Tradeoff Between Spectral Efficiency and Energy Efficiency of Homogeneous Cellular Networks With Outage Constraint. IEEE Transactions on Vehicular Technology, 2013, 62, 1801-1814.	6.3	35
12	An Analytical Framework for Evaluating Spectrum/Energy Efficiency of Heterogeneous Cellular Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 3568-3584.	6.3	32
13	Using semi-formal methods for detecting interactions among smart homes policies. Science of Computer Programming, 2007, 67, 125-161.	1.9	31
14	Stackelberg Equilibria of an Anti-Jamming Game in Cooperative Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 121-134.	7.9	31
15	Sum-Throughput Maximization in Wireless Sensor Networks With Radio Frequency Energy Harvesting and Backscatter Communication. IEEE Sensors Journal, 2018, 18, 7325-7339.	4.7	29
16	Energy consumption and message delay analysis of QoS enhanced base station controlled dynamic clustering protocol for wireless sensor networks. IEEE Transactions on Wireless Communications, 2009, 8, 5366-5374.	9.2	27
17	A Sensor Fusion-Based Framework for Floor Localization. IEEE Sensors Journal, 2019, 19, 623-631.	4.7	26
18	A Wireless Sensor Network for Feedlot Animal Health Monitoring. IEEE Sensors Journal, 2016, 16, 6433-6446.	4.7	25

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19	A Protocol Layer Trust-Based Intrusion Detection Scheme for Wireless Sensor Networks. <i>Sensors</i> , 2017, 17, 1227.	3.8	24
20	Performance analysis of hierarchical cellular networks with queueing and user retrials. <i>International Journal of Communication Systems</i> , 2006, 19, 699-721.	2.5	20
21	Coverage Probability Analysis of Heterogeneous Cellular Networks in Rician/Rayleigh Fading Environments. <i>IEEE Communications Letters</i> , 2015, 19, 1197-1200.	4.1	19
22	Performance Analysis of Common Radio Resource Management Scheme in Multi-Service Heterogeneous Wireless Networks. , 2007, , .		17
23	Cross-layer optimization with cooperative communication for minimum power cost in packet error rate constrained wireless sensor networks. <i>Ad Hoc Networks</i> , 2012, 10, 1457-1468.	5.5	15
24	Achieving Energy Efficient Transmission in Wireless Body Area Networks for the Physiological Monitoring of Military Soldiers. , 2013, , .		14
25	Measurement and Analysis of Available Ambient Radio Frequency Energy for Wireless Energy Harvesting. , 2016, , .		12
26	Energy and Spectral Efficiency Analysis for a Device-to-Device-Enabled Millimeter-Wave OFDMA Cellular Network. <i>IEEE Transactions on Communications</i> , 2019, 67, 8097-8111.	7.8	12
27	Design and Performance Evaluation of Successive Interference Cancellation-Based Pure Aloha for Internet-of-Things Networks. <i>IEEE Internet of Things Journal</i> , 2019, 6, 6578-6592.	8.7	12
28	A Coordinated Ambient/Dedicated Radio Frequency Energy Harvesting Scheme Using Machine Learning. <i>IEEE Sensors Journal</i> , 2020, 20, 13808-13823.	4.7	11
29	Enhanced preamble detection for PRACH in LTE. , 2013, , .		10
30	Analysis of Spectrum Efficiency and Energy Efficiency of Heterogeneous Wireless Networks with Intra-/Inter-RAT Offloading. <i>IEEE Transactions on Vehicular Technology</i> , 2014, , 1-1.	6.3	10
31	Scalable Team Oriented Reliable Multicast routing protocol for tactical mobile ad hoc networks. , 2008, , .		9
32	Three-dimensional absorbing Markov chain model for video streaming over IEEE 802.11 wireless networks. <i>IEEE Transactions on Consumer Electronics</i> , 2008, 54, 1672-1680.	3.6	8
33	Performance analysis of hexagonal cellular networks in fading channels. <i>Wireless Communications and Mobile Computing</i> , 2016, 16, 850-867.	1.2	8
34	A Cross-Layer Framework for Efficient Streaming of H.264 Video over IEEE 802.11 Networks. <i>Journal of Computer Systems, Networks, and Communications</i> , 2009, 2009, 1-13.	1.2	7
35	Performance analysis of poisson cellular networks with lognormal shadowed Rayleigh fading. , 2014, , .		7
36	Performance Optimization of a Multi-Source, Multi-Sensor Beamforming Wireless Powered Communication Network With Backscatter. <i>IEEE Sensors Journal</i> , 2019, 19, 10898-10909.	4.7	7

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37	Methods for Calculating Bandwidth, Delay, and Packet Loss Metrics in Multi-Hop IEEE802.11 Ad Hoc Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	6
38	On the Performance of Network Coding for Multicast Data Delivery in Large Scale Mobile Ad Hoc Networks. , 2010, , .		6
39	A battery aware distributed clustering and routing protocol for Wireless Sensor Networks. , 2012, , .		6
40	Maximizing Secondary Usersâ€™ Sum-Throughput in an In-Band Full-Duplex Cognitive Wireless Powered Backscatter Communication Network. IEEE Systems Journal, 2022, 16, 4082-4093.	4.6	6
41	Energy Efficient and Delay Optimized TDMA Scheduling for Clustered Wireless Sensor Networks. , 2009, , .		5
42	Energy efficiency of outage constrained two-tier heterogeneous cellular networks. , 2013, , .		5
43	Analysis of load dependent energy efficiency of two-tier heterogeneous cellular networks. , 2013, , .		5
44	Socially aware resource allocation for device-to-device communication in downlink OFDMA networks. , 2014, , .		5
45	Cooperative Multi-sensor Multi-vehicle Localization in Vehicular Adhoc Networks. , 2015, , .		5
46	Throughput reliability analysis of cloud-radio access networks. Wireless Communications and Mobile Computing, 2016, 16, 2824-2838.	1.2	5
47	Distance based duplex mode selection in large scale peer-to-peer wireless networks. , 2017, , .		5
48	Sensor fusion for floor detection. , 2017, , .		5
49	Efficient and Agile Carrier Sense Multiple Access in Capillary Machine-to-Machine Communication Networks. IEEE Access, 2018, 6, 4916-4932.	4.2	5
50	WLC47-5: Modeling Wireless TCP Connection Arrival Process. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	4
51	A mobility model for heterogeneous wireless networks. , 2008, , .		4
52	Improving Energy Efficiency in QoS-Enabled Wireless Sensor Networks. , 2010, , .		4
53	Energy Consumption in Wireless Sensor Networks under Varying Sensor Node Traffic. , 2010, , .		4
54	Security threat assessment of simultaneous multiple Denial-of-Service attacks in IEEE 802.22 Cognitive Radio networks. , 2016, , .		4

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55	Secrecy Rate Analysis of mmWave MISO Ad Hoc Networks with Null Space Precoding. , 2020, , .		4
56	Design and Performance Evaluation of a Hysteresis-Free On-the-Fly Scheduling Function for 6TiSCH. IEEE Internet of Things Journal, 2021, 8, 10499-10508.	8.7	4
57	Popularity and Size-Aware Caching With Cooperative Transmission in Hybrid Microwave/ Millimeter Wave Heterogeneous Networks. IEEE Transactions on Communications, 2021, 69, 4599-4614.	7.8	4
58	Performance Analysis of a QoS-Enabled Routing Protocol for Wireless Sensor Networks. , 2007, , .		3
59	Heuristics for Jointly Optimizing FEC and ARQ for Video Streaming over IEEE802.11 WLAN. , 2008, , .		3
60	A Graph-Based Resource Allocation Algorithm for Downlink MIMO-OFDMA Networks. , 2009, , .		3
61	Performance Evaluation of LoRaWAN in North America Urban Scenario. , 2018, , .		3
62	Optimized Wireless Energy Harvesting Sensor Network with Backscatter Communication and Beamforming. , 2019, , .		3
63	A QoS Negotiation Framework for Heterogeneous Wireless Networks. , 2007, , .		2
64	Secure and Scalable Video Streaming over IEEE 802.11e Based Home Networks. , 2007, , .		2
65	A Novel Radio Resource Management Approach for QoS Provisioning in Multi-Service Multi-Slot OFDMA Systems. , 2008, , .		2
66	Energy efficiency and packet error rate in wireless sensor networks with cooperative relay. , 2010, , .		2
67	Analysis of spectral efficiency and energy efficiency interrelationship in cellular networks with outage constraint. , 2012, , .		2
68	Coverage probability and spectral efficiency for downlink hexagonal cellular networks with Rayleigh fading. , 2013, , .		2
69	Analysis of spectrum efficiency and energy efficiency interrelationship in heterogeneous cellular networks. , 2014, , .		2
70	Analytic modeling of CSMA/CA based differentiated access control with mixed priorities for smart utility networks. , 2014, , .		2
71	Analysis of heterogeneous cellular network with hexagonal tessellated macrocells and randomly positioned small cells. , 2016, , .		2
72	Analysis of priority arbitration in low-rate CSMA/CA-based differentiated access with throughput optimization. International Journal of Communication Systems, 2017, 30, e2922.	2.5	2

#	ARTICLE	IF	CITATIONS
73	Data Mining Network Traffic. , 2006, , .		1
74	Formal Evaluation of Major Authentication Methods for IEEE 802.11i WLAN Standard. , 2006, , .		1
75	The Effectiveness of QoS Constrained AODV Routing for Voice Support in Multi-Hop IEEE802.11 Mobile Ad Hoc Networks. , 2009, , .		1
76	Application layer optimization for efficient video streaming over IEEE 802.11 based wireless networks. , 2009, , .		1
77	Efficient Scheduling Algorithms for Multi-Service Multi-Slot OFDMA Networks. , 2009, , .		1
78	Test-bed implementation of a cross-layer framework for video streaming over IEEE 802.11 ad-hoc wireless network. , 2009, , .		1
79	Combined cooperative communication and multicast for minimum power cost in coded wireless sensor networks. , 2011, , .		1
80	Graph-based resource allocation algorithms for multiuser downlink MIMO-OFDMA networks. Wireless Communications and Mobile Computing, 2012, , n/a-n/a.	1.2	1
81	Minimizing Power Cost in QoS Constrained Wireless Sensor Networks. International Journal of Wireless Information Networks, 2013, 20, 13-26.	2.7	1
82	Impact of intra- and inter-RAT offloading on the spectrum/energy efficiency of HetNets. , 2015, , .		1
83	Inter-wireless body area network scheduling algorithm for livestock health monitoring. , 2015, , .		1
84	On an Efficient Random Access Scheme for Capillary Machine Type Communication. , 2016, , .		1
85	Energy efficiency analysis of a C-RAN with distanceâ€”Based power control. , 2017, , .		1
86	Sum-Throughput and Fairness Optimization of a Wireless Energy Harvesting Sensor Network. , 2019, , .		1
87	Achievable Secrecy Rate in mmWave Multiple-Input Single-Output Ad Hoc Networks. , 2020, , .		1
88	Achievable secrecy rate analysis in mmWave ad hoc networks with multiâ€”array antenna transmission and artificial noise. IET Communications, 2021, 15, 2068-2086.	2.2	1
89	A Blind Adaptive Technique for Cancelling ICI in OFDM-WPAN Systems. International Journal of Wireless Information Networks, 2005, 12, 109-121.	2.7	0
90	Effect of non-stationarities on multifractal analysis. , 2006, , .		0

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91	Performance Evaluation of Joint FEC and ARQ Optimization Heuristic Algorithms under Gilbert-Elliot Wireless Channel. IEEE Vehicular Technology Conference, 2008, , .	0.4	0
92	A Simulation Framework for Performance Evaluation of Network Selection Algorithms in Heterogeneous Wireless Networks. , 2010, , .		0
93	An energy-efficient transmission scheme for monitoring of combat soldier health in tactical mobile ad hoc networks. , 2012, , .		0
94	On modeling and measuring quality of experience performance in IEEE 802.11n wireless networks. , 2014, , .		0
95	Energy efficiency and spectrum efficiency in cooperative cloud radio access network. , 2015, , .		0
96	Average Rate Analysis for the Full-Duplex MISO Interference Channel. IEEE Communications Letters, 2016, 20, 1579-1582.	4.1	0
97	Power control schemes for full-duplex device-to-device networks underlying a primary full-duplex network. , 2017, , .		0
98	Nash equilibria of deception strategies in the IEEE 802.22 cognitive radio networks. , 2017, , .		0
99	Impact of Packet Routing Scheme on Post-Failure Industrial Wireless Sensor Networks. , 2020, , .		0
100	Artificial Neural Networks-based Ambient RF Energy Harvesting with Environment Detection. , 2021, , .		0