Abraham O Fapojuwo

List of Publications by Year
in descending order

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	Maximizing Secondary Users' Sum-Throughput in an In-Band Full-Duplex Cognitive Wireless Powered Backscatter Communication Network. IEEE Systems Journal, 2022, 16, 4082-4093.	4.6	6
2	Achievable secrecy rate analysis in mmWave ad hoc networks with multi‑array antenna transmission and artificial noise. IET Communications, 2021, 15, 2068-2086.	2.2	1
3	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
4	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
5	Artificial Neural Networks-based Ambient RF Energy Harvesting with Environment Detection. , 2021, , .		0
6	Achievable Secrecy Rate in mmWave Multiple-Input Single-Output Ad Hoc Networks. , 2020, , .		1
7	Secrecy Rate Analysis of mmWave MISO Ad Hoc Networks with Null Space Precoding. , 2020, , .		4
8	A Coordinated Ambient/Dedicated Radio Frequency Energy Harvesting Scheme Using Machine Learning. IEEE Sensors Journal, 2020, 20, 13808-13823.	4.7	11
9	Impact of Packet Routing Scheme on Post-Failure Industrial Wireless Sensor Networks. , 2020, , .		0
10	A Sensor Fusion-Based Framework for Floor Localization. IEEE Sensors Journal, 2019, 19, 623-631.	4.7	26
11	Performance Optimization of a Multi-Source, Multi-Sensor Beamforming Wireless Powered Communication Network With Backscatter. IEEE Sensors Journal, 2019, 19, 10898-10909.	4.7	7
12	Energy and Spectral Efficiency Analysis for a Device-to-Device-Enabled Millimeter-Wave OFDMA Cellular Network. IEEE Transactions on Communications, 2019, 67, 8097-8111.	7.8	12
13	Design and Performance Evaluation of Successive Interference Cancellation-Based Pure Aloha for Internet-of-Things Networks. IEEE Internet of Things Journal, 2019, 6, 6578-6592.	8.7	12
14	Sum-Throughput and Fairness Optimization of a Wireless Energy Harvesting Sensor Network. , 2019, , .		1
15	Optimized Wireless Energy Harvesting Sensor Network with Backscatter Communication and Beamforming. , 2019, , .		3
16	Efficient and Agile Carrier Sense Multiple Access in Capillary Machine-to-Machine Communication Networks. IEEE Access, 2018, 6, 4916-4932.	4.2	5
17	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
18	Performance Evaluation of LoRaWAN in North America Urban Scenario. , 2018, , .		3

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19	Vehicle Trajectory Prediction with Gaussian Process Regression in Connected Vehicle Environment$star$. , 2018, , .		38
20	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
21	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
22	Energy efficiency analysis of a C-RAN with distance—Based power control. , 2017, , .		1
23	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
24	Distance based duplex mode selection in large scale peer-to-peer wireless networks. , 2017, , .		5
25	Power control schemes for full-duplex device-to-device networks underlaying a primary full-duplex network. , 2017, , .		0
26	Nash equilibria of deception strategies in the IEEE 802.22 cognitive radio networks. , 2017, , .		0
27	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
28	Sensor fusion for floor detection. , 2017, , .		5
29	A Protocol Layer Trust-Based Intrusion Detection Scheme for Wireless Sensor Networks. Sensors, 2017, 17, 1227.	3.8	24
30	Performance analysis of hexagonal cellular networks in fading channels. Wireless Communications and Mobile Computing, 2016, 16, 850-867.	1.2	8
31	Measurement and Analysis of Available Ambient Radio Frequency Energy for Wireless Energy Harvesting. , 2016, , .		12
32	On an Efficient Random Access Scheme for Capillary Machine Type Communication. , 2016, , .		1
33	Analysis of heterogeneous cellular network with hexagonal tessellated macrocells and randomly positioned small cells. , 2016, , .		2
34	Security threat assessment of simultaneous multiple Denial-of-Service attacks in IEEE 802.22 Cognitive Radio networks. , 2016, , .		4
35	Throughput reliability analysis of cloud-radio access networks. Wireless Communications and Mobile Computing, 2016, 16, 2824-2838.	1.2	5
36	Average Rate Analysis for the Full-Duplex MISO Interference Channel. IEEE Communications Letters, 2016, 20, 1579-1582.	4.1	0

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37	An Analytical Framework for Evaluating Spectrum/Energy Efficiency of Heterogeneous Cellular Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 3568-3584.	6.3	32
38	A Wireless Sensor Network for Feedlot Animal Health Monitoring. IEEE Sensors Journal, 2016, 16, 6433-6446.	4.7	25
39	Impact of intra- and inter-RAT offloading on the spectrum/energy efficiency of HetNets. , 2015, , .		1
40	Energy efficiency and spectrum efficiency in cooperative cloud radio access network. , 2015, , .		0
41	Coverage Probability Analysis of Heterogeneous Cellular Networks in Rician/Rayleigh Fading Environments. IEEE Communications Letters, 2015, 19, 1197-1200.	4.1	19
42	Inter-wireless body area network scheduling algorithm for livestock health monitoring. , 2015, , .		1
43	Cooperative Multi-sensor Multi-vehicle Localization in Vehicular Adhoc Networks. , 2015, , .		5
44	Analysis of spectrum efficiency and energy efficiency interrelationship in heterogeneous cellular networks. , 2014, , .		2
45	Socially aware resource allocation for device-to-device communication in downlink OFDMA networks. , 2014, , .		5
46	Performance analysis of poisson cellular networks with lognormal shadowed Rayleigh fading. , 2014, , .		7
47	Analysis of Spectrum Efficiency and Energy Efficiency of Heterogeneous Wireless Networks with Intra-/Inter-RAT Offloading. IEEE Transactions on Vehicular Technology, 2014, , 1-1.	6.3	10
48	Analytic modeling of CSMA/CA based differentiated access control with mixed priorities for smart utility networks. , 2014, , .		2
49	On modeling and measuring quality of experience performance in IEEE 802.11n wireless networks. , 2014, , .		0
50	A Survey of Energy Efficient Resource Management Techniques for Multicell Cellular Networks. IEEE Communications Surveys and Tutorials, 2014, 16, 154-180.	39.4	130
51	Energy efficiency of outage constrained two-tier heterogeneous cellular networks. , 2013, , .		5
52	Enhanced preamble detection for PRACH in LTE. , 2013, , .		10
53	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
54	Minimizing Power Cost in QoS Constrained Wireless Sensor Networks. International Journal of Wireless Information Networks, 2013, 20, 13-26.	2.7	1

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55	Achieving Energy Efficient Transmission in Wireless Body Area Networks for the Physiological Monitoring of Military Soldiers. , 2013, , .		14
56	Coverage probability and spectral efficiency for downlink hexagonal cellular networks with Rayleigh fading. , 2013, , .		2
57	Analysis of load dependent energy efficiency of two-tier heterogeneous cellular networks. , 2013, , .		5
58	Graph-based resource allocation algorithms for multiuser downlink MIMO-OFDMA networks. Wireless Communications and Mobile Computing, 2012, , n/a-n/a.	1.2	1
59	A battery aware distributed clustering and routing protocol for Wireless Sensor Networks. , 2012, , .		6
60	Analysis of spectral efficiency and energy efficiency interrelationship in cellular networks with outage constraint. , 2012, , .		2
61	Performance Analysis and Parameter Optimization of Random Access Backoff Algorithm in LTE. , 2012, , .		46
62	Cross-layer optimization with cooperative communication for minimum power cost in packet error rate constrained wireless sensor networks. Ad Hoc Networks, 2012, 10, 1457-1468.	5.5	15
63	An energy-efficient transmission scheme for monitoring of combat soldier health in tactical mobile ad hoc networks. , 2012, , .		0
64	Combined cooperative communication and multicast for minimum power cost in coded wireless sensor networks. , 2011, , .		1
65	A Survey of System Architecture Requirements for Health Care-Based Wireless Sensor Networks. Sensors, 2011, 11, 4875-4898.	3.8	75
66	Improving Energy Efficiency in QoS-Enabled Wireless Sensor Networks. , 2010, , .		4
67	A Simulation Framework for Performance Evaluation of Network Selection Algorithms in Heterogeneous Wireless Networks. , 2010, , .		0
68	Energy Consumption in Wireless Sensor Networks under Varying Sensor Node Traffic. , 2010, , .		4
69	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
70	Energy efficiency and packet error rate in wireless sensor networks with cooperative relay. , 2010, , .		2
71	On the Performance of Network Coding for Multicast Data Delivery in Large Scale Mobile Ad Hoc Networks. , 2010, , .		6
72	A Cross-Layer Framework for Efficient Streaming of H.264 Video over IEEE 802.11 Networks. Journal of Computer Systems, Networks, and Communications, 2009, 2009, 1-13.	1.2	7

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73	Energy Efficient and Delay Optimized TDMA Scheduling for Clustered Wireless Sensor Networks. , 2009, , .		5
74	The Effectiveness of QoS Constrained AODV Routing for Voice Support in Multi-Hop IEEE802.11 Mobile Ad Hoc Networks. , 2009, , .		1
75	Application layer optimization for efficient video streaming over IEEE 802.11 based wireless networks. , 2009, , .		1
76	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
77	A Graph-Based Resource Allocation Algorithm for Downlink MIMO-OFDMA Networks. , 2009, , .		3
78	Efficient Scheduling Algorithms for Multi-Service Multi-Slot OFDMA Networks. , 2009, , .		1
79	Test-bed implementation of a cross-layer framework for video streaming over IEEE 802.11 ad-hoc wireless network. , 2009, , .		1
80	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
81	Scalable Team Oriented Reliable Multicast routing protocol for tactical mobile ad hoc networks. , 2008, , .		9
82	Three-dimensional absorbing Markov chain model for video streaming over IEEE 802.11 wireless networks. IEEE Transactions on Consumer Electronics, 2008, 54, 1672-1680.	3.6	8
83	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
84	A mobility model for heterogeneous wireless networks. , 2008, , .		4
85	Performance Evaluation of Joint FEC and ARQ Optimization Heuristic Algorithms under Gilbert-Elliot Wireless Channel. IEEE Vehicular Technology Conference, 2008, , .	0.4	0
86	Heuristics for Jointly Optimizing FEC and ARQ for Video Streaming over IEEE802.11 WLAN. , 2008, , .		3
87	A Novel Radio Resource Management Approach for QoS Provisioning in Multi-Service Multi-Slot OFDMA Systems. , 2008, , .		2
88	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
89	Performance Analysis of a QoS-Enabled Routing Protocol for Wireless Sensor Networks. , 2007, , .		3
90	Performance Analysis of Common Radio Resource Management Scheme in Multi-Service Heterogeneous Wireless Networks. , 2007, , .		17

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91	A QoS Negotiation Framework for Heterogeneous Wireless Networks. , 2007, , .		2
92	Secure and Scalable Video Streaming over IEEE 802.11e Based Home Networks. , 2007, , .		2
93	Using semi-formal methods for detecting interactions among smart homes policies. Science of Computer Programming, 2007, 67, 125-161.	1.9	31
94	Effect of non-stationarities on multifractal analysis. , 2006, , .		0
95	Data Mining Network Traffic. , 2006, , .		1
96	Performance analysis of hierarchical cellular networks with queueing and user retrials. International Journal of Communication Systems, 2006, 19, 699-721.	2.5	20
97	WLC47-5: Modeling Wireless TCP Connection Arrival Process. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	4
98	Formal Evaluation of Major Authentication Methods for IEEE 802.11i WLAN Standard. , 2006, , .		1
99	Stochastic processes for computer network traffic modeling. Computer Communications, 2005, 29, 1-23.	5.1	46
100	A Blind Adaptive Technique for Cancelling ICI in OFDM-WPAN Systems. International Journal of Wireless Information Networks, 2005, 12, 109-121.	2.7	0