AlI Imran

List of Publications by Citations

671 papers	12,067 citations	51 h-index	91 g-index
807 ext. papers	16,329 ext. citations	4.8 avg, IF	7.26 L-index

#	Paper	IF	Citations
671	. *IEEE Wireless Communications*, **2011**, 18, 40-49	13.4	951
670	Non-intrusive load monitoring approaches for disaggregated energy sensing: a survey. *Sensors*, **2012**, 12, 16838-66	3.8	555
669	5G Backhaul Challenges and Emerging Research Directions: A Survey. *IEEE Access*, **2016**, 4, 1743-1766	3.5	352
668	Challenges in 5G: how to empower SON with big data for enabling 5G. *IEEE Network*, **2014**, 28, 27-33	11.4	266
667	. *IEEE Communications Surveys and Tutorials*, **2013**, 15, 336-361	37.1	262
666	MmWave massive-MIMO-based wireless backhaul for the 5G ultra-dense network. *IEEE Wireless Communications*, **2015**, 22, 13-21	13.4	256
665	A Survey of Machine Learning Techniques Applied to Self-Organizing Cellular Networks. *IEEE Communications Surveys and Tutorials*, **2017**, 19, 2392-2431	37.1	237
664	AI4COVID-19: AI enabled preliminary diagnosis for COVID-19 from cough samples via an app. *Informatics in Medicine Unlocked*, **2020**, 20, 100378	5.3	220
663	Uplink non-orthogonal multiple access for 5G wireless networks **2014**,		213
662	A Speculative Study on 6G. *IEEE Wireless Communications*, **2020**, 27, 118-125	13.4	213
661	Cellular Energy Efficiency Evaluation Framework **2011**,		133
660	Flexible power modeling of LTE base stations **2012**,		131
659	Enabling Massive IoT in 5G and Beyond Systems: PHY Radio Frame Design Considerations. *IEEE Access*, **2016**, 4, 3322-3339	3.5	123
658	Load Aware Self-Organising User-Centric Dynamic CoMP Clustering for 5G Networks. *IEEE Access*, **2016**, 4, 2895-2906	3.5	118
657	A Survey of the Challenges, Opportunities and Use of Multiple Antennas in Current and Future 5G Small Cell Base Stations. *IEEE Access*, **2016**, 4, 2952-2964	3.5	112
656	Blockchain-Enabled Wireless Internet of Things: Performance Analysis and Optimal Communication Node Deployment. *IEEE Internet of Things Journal*, **2019**, 6, 5791-5802	10.7	111
655	Big data analytics for preventive medicine. *Neural Computing and Applications*, **2019**, 32, 1-35	4.8	109

654	Individual energy use and feedback in an office setting: A field trial. *Energy Policy*, **2013**, 62, 717-728	7.2	108
653	Deep learning and big data technologies for IoT security. *Computer Communications*, **2020**, 151, 495-517	5.1	108
652	Complementing IoT Services Through Software Defined Networking and Edge Computing: A Comprehensive Survey. *IEEE Communications Surveys and Tutorials*, **2020**, 22, 1761-1804	37.1	94
651	. *IEEE Transactions on Communications*, **2012**, 60, 1345-1356	6.9	93
650	Coordinated Multi-Point Clustering Schemes: A Survey. *IEEE Communications Surveys and Tutorials*, **2017**, 19, 743-764	37.1	91
649	Mobile Health in the Developing World: Review of Literature and Lessons From a Case Study. *IEEE Access*, **2017**, 5, 11540-11556	3.5	90
648	Radio Resource Management Scheme in NB-IoT Systems. *IEEE Access*, **2018**, 6, 15051-15064	3.5	88
647	Internet of Things (IoT) in 5G Wireless Communications. *IEEE Access*, **2016**, 4, 10310-10314	3.5	85
646	. *IEEE Communications Surveys and Tutorials*, **2016**, 18, 419-445	37.1	82
645	Terahertz Channel Characterization Inside the Human Skin for Nano-Scale Body-Centric Networks. *IEEE Transactions on Terahertz Science and Technology*, **2016**, 6, 427-434	3.4	82
644	. *IEEE Communications Surveys and Tutorials*, **2016**, 18, 446-465	37.1	81
643	How 5G Wireless (and Concomitant Technologies) Will Revolutionize Healthcare?. *Future Internet*, **2017**, 9, 93	3.3	80
642	High quality bio-oil from catalytic flash pyrolysis of lignocellulosic biomass over alumina-supported sodium carbonate. *Fuel Processing Technology*, **2014**, 127, 72-79	7.2	76
641	6G Wireless Systems: A Vision, Architectural Elements, and Future Directions. *IEEE Access*, **2020**, 8, 147029-147044	3.5	74
640	BeepTrace: Blockchain-Enabled Privacy-Preserving Contact Tracing for COVID-19 Pandemic and Beyond. *IEEE Internet of Things Journal*, **2021**, 8, 3915-3929	10.7	72
639	M2M Communications in 5G: State-of-the-Art Architecture, Recent Advances, and Research Challenges **2017**, 55, 194-201		68
638	Ultrawideband Band-Notched Flexible Antenna for Wearable Applications. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1606-1609	3.8	68
637	On Receiver Design for Uplink Low Density Signature OFDM (LDS-OFDM). *IEEE Transactions on Communications*, **2012**, 60, 3499-3508	6.9	67

636	Planning Wireless Cellular Networks of Future: Outlook, Challenges and Opportunities. *IEEE Access*, **2017**, 5, 4821-4845	3.5	64
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634	A Cell Outage Management Framework for Dense Heterogeneous Networks. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 2097-2113	6.8	62
633	Anomaly Detection in Wireless Sensor Networks in a Non-Stationary Environment. *IEEE Communications Surveys and Tutorials*, **2014**, 16, 1413-1432	37.1	62
632	Energy efficiency in heterogeneous wireless access networks. *IEEE Wireless Communications*, **2013**, 20, 37-43	13.4	62
631	On the multicell processing capacity of the cellular MIMO uplink channel in correlated rayleigh fading environment. *IEEE Transactions on Wireless Communications*, **2009**, 8, 3704-3715	9.6	61
630	Unmanned aerial vehicle for internet of everything: Opportunities and challenges. *Computer Communications*, **2020**, 155, 66-83	5.1	60
629	Energy Efficiency Benefits of RAN-as-a-Service Concept for a Cloud-Based 5G Mobile Network Infrastructure. *IEEE Access*, **2014**, 2, 1586-1597	3.5	60
628	EARTH Energy Aware Radio and Network Technologies **2009**,		60
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625	Optical Non-Orthogonal Multiple Access for Visible Light Communication. *IEEE Wireless Communications*, **2018**, 25, 82-88	13.4	58
624	An Intelligent Non-Invasive Real-Time Human Activity Recognition System for Next-Generation Healthcare. *Sensors*, **2020**, 20,	3.8	54
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621	QUALITY OF SERVICE OPTIMIZATION IN AN IOT-DRIVEN INTELLIGENT TRANSPORTATION SYSTEM. *IEEE Wireless Communications*, **2019**, 26, 10-17	13.4	52
620	State-of-the-art in terahertz sensing for food and water security A comprehensive review. *Trends in Food Science and Technology*, **2019**, 85, 241-251	15.3	51
619	Millimeter-Wave Liquid Crystal Polymer Based Conformal Antenna Array for 5G Applications. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 84-88	3.8	49

600	The 3-D flow of Casson nanofluid over a stretched sheet with chemical reactions, velocity slip, thermal radiation and Brownian motion. *Thermal Science*, **2020**, 24, 2929-2939	1.2	35
599	Social-Aware Resource Allocation and Optimization for D2D Communication. *IEEE Wireless Communications*, **2017**, 24, 122-129	13.4	34
598	A novel deep learning driven, low-cost mobility prediction approach for 5G cellular networks: The case of the Control/Data Separation Architecture (CDSA). *Neurocomputing*, **2019**, 358, 479-489	5.4	34
597	Collaborative Spectrum Sensing Optimisation Algorithms for Cognitive Radio Networks. *International Journal of Digital Multimedia Broadcasting*, **2010**, 2010, 1-20	0.8	34
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595	Self-Powered Implantable Medical Devices: Photovoltaic Energy Harvesting Review. *Advanced Healthcare Materials*, **2020**, 9, e2000779	10.1	33
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591	Low-Cost Inkjet-Printed UHF RFID Tag-Based System for Internet of Things Applications Using Characteristic Modes. *IEEE Internet of Things Journal*, **2019**, 6, 3962-3975	10.7	31
590	Insights and Approaches for Low-Complexity 5G Small-Cell Base-Station Design for Indoor Dense Networks. *IEEE Access*, **2015**, 3, 1562-1572	3.5	30
589	A Distributed SON-Based User-Centric Backhaul Provisioning Scheme. *IEEE Access*, **2016**, 4, 2314-2330	3.5	30
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572	An efficient monitoring of eclamptic seizures in wireless sensors networks. *Computers and Electrical Engineering*, **2019**, 75, 16-30	4.3	26
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561	Localized Algorithm for Segregation of Critical/Non-critical Nodes in Mobile Ad Hoc and Sensor Networks. *Procedia Computer Science*, **2013**, 19, 1167-1172	1.6	24
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