

Mohammed H Alsharif

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.

94 papers	1,232 citations	19 h-index	30 g-index
109 ext. papers	1,844 ext. citations	3.1 avg, IF	5.68 L-index

#	Paper	IF	Citations
94	Evolution towards fifth generation (5G) wireless networks: Current trends and challenges in the deployment of millimetre wave, massive MIMO, and small cells. <i>Telecommunication Systems</i> , 2017 , 64, 617-637	2.3	91
93	Sixth Generation (6G) Wireless Networks: Vision, Research Activities, Challenges and Potential Solutions. <i>Symmetry</i> , 2020 , 12, 676	2.7	88
92	Time Series ARIMA Model for Prediction of Daily and Monthly Average Global Solar Radiation: The Case Study of Seoul, South Korea. <i>Symmetry</i> , 2019 , 11, 240	2.7	70
91	Correcting design flaws: An improved and cloud assisted key agreement scheme in cyber physical systems. <i>Computer Communications</i> , 2020 , 153, 527-537	5.1	52
90	Green and Sustainable Cellular Base Stations: An Overview and Future Research Directions. <i>Energies</i> , 2017 , 10, 587	3.1	47
89	Survey of Green Radio Communications Networks: Techniques and Recent Advances. <i>Journal of Computer Networks and Communications</i> , 2013 , 2013, 1-13	2.5	47
88	Energy optimisation of hybrid off-grid system for remote telecommunication base station deployment in Malaysia. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2015 , 2015,	3.2	46
87	Machine Learning Algorithms for Smart Data Analysis in Internet of Things Environment: Taxonomies and Research Trends. <i>Symmetry</i> , 2020 , 12, 88	2.7	37
86	Hybrid Off-Grid SPV/WTG Power System for Remote Cellular Base Stations Towards Green and Sustainable Cellular Networks in South Korea. <i>Energies</i> , 2017 , 10, 9	3.1	36
85	Energy Harvesting Techniques for Wireless Sensor Networks/Radio-Frequency Identification: A Review. <i>Symmetry</i> , 2019 , 11, 865	2.7	34
84	Optimal Solar Power System for Remote Telecommunication Base Stations: A Case Study Based on the Characteristics of South Korea's Solar Radiation Exposure. <i>Sustainability</i> , 2016 , 8, 942	3.6	31
83	Opportunities and Challenges of Solar and Wind Energy in South Korea: A Review. <i>Sustainability</i> , 2018 , 10, 1822	3.6	29
82	Classification, Recent Advances and Research Challenges in Energy Efficient Cellular Networks. <i>Wireless Personal Communications</i> , 2014 , 77, 1249-1269	1.9	29
81	How to make key 5G wireless technologies environmental friendly: A review. <i>Transactions on Emerging Telecommunications Technologies</i> , 2018 , 29, e3254	1.9	23
80	. <i>IEEE Systems Journal</i> , 2021 , 15, 4431-4438	4.3	22
79	Optimization design and economic analysis of energy management strategy based on photovoltaic/energy storage for heterogeneous cellular networks using the HOMER model. <i>Solar Energy</i> , 2017 , 147, 133-150	6.8	21
78	Future 5G Network Based Smart Hospitals: Hybrid Detection Technique for Latency Improvement. <i>IEEE Access</i> , 2020 , 8, 153240-153249	3.5	21

77	. <i>IEEE Access</i> , 2021 , 9, 38833-38858	3.5	21
76	Green wireless network optimisation strategies within smart grid environments for Long Term Evolution (LTE) cellular networks in Malaysia. <i>Renewable Energy</i> , 2016 , 85, 157-170	8.1	20
75	Energy Efficiency and Coverage Trade-Off in 5G for Eco-Friendly and Sustainable Cellular Networks. <i>Symmetry</i> , 2019 , 11, 408	2.7	17
74	Techno-Economic Evaluation of a Stand-Alone Power System Based on Solar Power/Batteries for Global System for Mobile Communications Base Stations. <i>Energies</i> , 2017 , 10, 392	3.1	17
73	. <i>IEEE Systems Journal</i> , 2020 , 1-8	4.3	16
72	A Provable and Privacy-Preserving Authentication Scheme for UAV-Enabled Intelligent Transportation Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	16
71	A Privacy Preserving Authentication Scheme for Roaming in IoT-Based Wireless Mobile Networks. <i>Symmetry</i> , 2020 , 12, 287	2.7	15
70	Deep learning applications to combat the dissemination of COVID-19 disease: a review. <i>European Review for Medical and Pharmacological Sciences</i> , 2020 , 24, 11455-11460	2.9	15
69	Strategic Market Growth and Policy Recommendations for Sustainable Solar Energy Deployment in South Korea. <i>Journal of Electrical Engineering and Technology</i> , 2020 , 15, 803-815	1.4	15
68	A Novel Multiobjective Hybrid Technique for Siting and Sizing of Distributed Generation and Capacitor Banks in Radial Distribution Systems. <i>Sustainability</i> , 2021 , 13, 3308	3.6	15
67	Robust Hybrid Beamforming Scheme for Millimeter-Wave Massive-MIMO 5G Wireless Networks. <i>Symmetry</i> , 2019 , 11, 1424	2.7	15
66	Multi-Objective Optimum Design of Hybrid Renewable Energy System for Sustainable Energy Supply to a Green Cellular Networks. <i>Sustainability</i> , 2020 , 12, 3536	3.6	13
65	A Solar Energy Solution for Sustainable Third Generation Mobile Networks. <i>Energies</i> , 2017 , 10, 429	3.1	13
64	Comparative Analysis of Solar-Powered Base Stations for Green Mobile Networks. <i>Energies</i> , 2017 , 10, 1208	3.1	11
63	A contemporary survey on free space optical communication: Potentials, technical challenges, recent advances and research direction. <i>Journal of Network and Computer Applications</i> , 2022 , 200, 103314	7.9	11
62	MIMO-Terahertz in 6G Nano-Communications: Channel Modeling and Analysis. <i>Computers, Materials and Continua</i> , 2020 , 66, 263-274	3.9	11
61	Design of Rotor Blades for Vertical Axis Wind Turbine with Wind Flow Modifier for Low Wind Profile Areas. <i>Sustainability</i> , 2020 , 12, 8050	3.6	10
60	Topology-Based Routing Protocols and Mobility Models for Flying Ad Hoc Networks: A Contemporary Review and Future Research Directions. <i>Drones</i> , 2022 , 6, 9	5.4	10

59	Intelligent cooperation management of multi-radio access technology towards the green cellular networks for the twenty-twenty information society. <i>Telecommunication Systems</i> , 2017 , 65, 497-510	2.3	9
58	Small Cells Integration with the Macro-Cell Under LTE Cellular Networks and Potential Extension for 5G. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 2455-2465	1.4	9
57	Evaluation and forecasting of solar radiation using time series adaptive neuro-fuzzy inference system: Seoul city as a case study. <i>IET Renewable Power Generation</i> , 2019 , 13, 1711-1723	2.9	9
56	Renewable Energy-Aware Sustainable Cellular Networks with Load Balancing and Energy-Sharing Technique. <i>Sustainability</i> , 2020 , 12, 9340	3.6	9
55	Energy Optimization Strategies for Eco-Friendly Cellular Base Stations. <i>Energies</i> , 2018 , 11, 1500	3.1	8
54	The Four-C Framework for High Capacity Ultra-Low Latency in 5G Networks: A Review. <i>Energies</i> , 2019 , 12, 3449	3.1	8
53	Low Complexity Linear Detectors for Massive MIMO: A Comparative Study. <i>IEEE Access</i> , 2021 , 9, 45740-45753	3.5	8
52	Automated Triage System for Intensive Care Admissions during the COVID-19 Pandemic Using Hybrid XGBoost-AHP Approach. <i>Sensors</i> , 2021 , 21,	3.8	8
51	Towards Energy Efficient Load Balancing for Sustainable Green Wireless Networks Under Optimal Power Supply. <i>IEEE Access</i> , 2020 , 8, 200635-200654	3.5	7
50	Long-Term Techno-Economic Analysis of Sustainable and Zero Grid Cellular Base Station. <i>IEEE Access</i> , 2021 , 9, 54159-54172	3.5	7
49	Autonomous Fuzzy Controller Design for the Utilization of Hybrid PV-Wind Energy Resources in Demand Side Management Environment. <i>Electronics (Switzerland)</i> , 2021 , 10, 1618	2.6	7
48	A Low Complexity Near-Optimal Iterative Linear Detector for Massive MIMO in Realistic Radio Channels of 5G Communication Systems. <i>Entropy</i> , 2020 , 22,	2.8	6
47	Artificial intelligence technology for diagnosing COVID-19 cases: a review of substantial issues. <i>European Review for Medical and Pharmacological Sciences</i> , 2020 , 24, 9226-9233	2.9	6
46	Design and Experimental Analysis of Multiband Compound Reconfigurable 5G Antenna for Sub-6 GHz Wireless Applications. <i>Wireless Communications and Mobile Computing</i> , 2021 , 2021, 1-14	1.9	6
45	A Hybrid Multi-Objective Optimizer-Based SVM Model for Enhancing Numerical Weather Prediction: A Study for the Seoul Metropolitan Area. <i>Sustainability</i> , 2022 , 14, 296	3.6	6
44	Cooperation Management Among Base Stations Based on Cells Switch-Off for a Green LTE Cellular Network. <i>Wireless Personal Communications</i> , 2015 , 81, 303-318	1.9	5
43	Impact of Stair and Diagonal Matrices in Iterative Linear Massive MIMO Uplink Detectors for 5G Wireless Networks. <i>Symmetry</i> , 2020 , 12, 71	2.7	5
42	An Efficient Certificate-Based Aggregate Signature Scheme for Internet of Drones. <i>Security and Communication Networks</i> , 2022 , 2022, 1-9	1.9	5

41	Application of machine intelligence technology in the detection of vaccines and medicines for SARS-CoV-2. <i>European Review for Medical and Pharmacological Sciences</i> , 2020 , 24, 11977-11981	2.9	5
40	Notice of Retraction: Enabling Hardware Green Internet of Things: A review of Substantial Issues. <i>IEEE Access</i> , 2020 , 1-1	3.5	5
39	Frequency Reconfigurable Antenna for Portable Wireless Applications. <i>Computers, Materials and Continua</i> , 2021 , 68, 3015-3027	3.9	5
38	Toward 6G Communication Networks: Terahertz Frequency Challenges and Open Research Issues. <i>Computers, Materials and Continua</i> , 2021 , 66, 2831-2842	3.9	5
37	A Robust Hybrid Iterative Linear Detector for Massive MIMO Uplink Systems. <i>Symmetry</i> , 2020 , 12, 306	2.7	4
36	Assessment and Integration of Renewable Energy Resources Installations with Reactive Power Compensator in Indian Utility Power System Network. <i>Electronics (Switzerland)</i> , 2021 , 10, 912	2.6	4
35	Techno-Economic Investigation of Wind Energy Potential in Selected Sites with Uncertainty Factors. <i>Sustainability</i> , 2021 , 13, 2182	3.6	4
34	Blockchain Based Authentication and Cluster Head Selection Using DDR-LEACH in Internet of Sensor Things.. <i>Sensors</i> , 2022 , 22,	3.8	4
33	Intelligent cooperation management among solar powered base stations towards a green cellular network in a country with an equatorial climate. <i>Telecommunication Systems</i> , 2016 , 62, 179-198	2.3	3
32	An Efficient Algorithm for mmWave MIMO Systems. <i>Symmetry</i> , 2019 , 11, 786	2.7	3
31	Energy Efficient and High Capacity Tradeoff in Distributed Antenna System for a Green Cellular Network. <i>Journal of Computer Networks and Communications</i> , 2015 , 2015, 1-9	2.5	3
30	2014,		3
29	A secure and improved multi server authentication protocol using fuzzy commitment. <i>Multimedia Tools and Applications</i> , 2021 , 80, 16907-16931	2.5	3
28	Frequency Reconfigurable Antenna for Multi Standard Wireless and Mobile Communication Systems. <i>Computers, Materials and Continua</i> , 2021 , 68, 2563-2578	3.9	3
27	Design and Validation of BAT Algorithm-Based Photovoltaic System Using Simplified High Gain Quasi Boost Inverter. <i>Energies</i> , 2021 , 14, 1086	3.1	3
26	Artificial Intelligence: An Energy Efficiency Tool for Enhanced High performance computing. <i>Symmetry</i> , 2020 , 12, 1029	2.7	2
25	Re-Allocation of Distributed Generations Using Available Renewable Potential Based Multi-Criterion-Multi-Objective Hybrid Technique. <i>Sustainability</i> , 2021 , 13, 13709	3.6	2
24	A Multi-Message Multi-Receiver Signcryption Scheme with Edge Computing for Secure and Reliable Wireless Internet of Medical Things Communications. <i>Sustainability</i> , 2021 , 13, 13184	3.6	2

23	An Anonymous Certificateless Signcryption Scheme for Secure and Efficient Deployment of Internet of Vehicles. <i>Sustainability</i> , 2021 , 13, 10891	3.6	2
22	Analyzing and evaluating the energy efficiency based on multi-5G small cells with a mm-waves in the next generation cellular networks. <i>International Journal of Electrical and Computer Engineering</i> , 2020 , 10, 3492	1.4	2
21	Comparative Analysis of Data Detection Techniques for 5G Massive MIMO Systems. <i>Sustainability</i> , 2020 , 12, 9281	3.6	2
20	Toward Optimal Cost-Energy Management Green Framework for Sustainable Future Wireless Networks. <i>Computers, Materials and Continua</i> , 2021 , 68, 1321-1339	3.9	2
19	Powering Mobile Networks with Optimal Green Energy for Sustainable Development. <i>Computers, Materials and Continua</i> , 2021 , 69, 661-677	3.9	2
18	Optimal Cost-Aware Paradigm for Off-Grid Green Cellular Networks in Oman. <i>Computers, Materials and Continua</i> , 2021 , 68, 2665-2680	3.9	2
17	Design of a Low-Cost Air Quality Monitoring System Using Arduino and ThingSpeak. <i>Computers, Materials and Continua</i> , 2022 , 70, 151-169	3.9	2
16	. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
15	Manifold Optimization for High-Accuracy Spatial Location Estimation Using Ultrasound Waves. <i>IEEE Transactions on Signal Processing</i> , 2021 , 69, 5078-5093	4.8	2
14	Exploiting Coexistence Between UMTS and LTE for Greener Cellular Networks with Particle Swarm Optimization. <i>Wireless Personal Communications</i> , 2015 , 85, 623-639	1.9	1
13	A User Cooperation Approach for Interference Cancellation in FDD Massive MIMO Systems. <i>Electronics (Switzerland)</i> , 2020 , 9, 1679	2.6	1
12	Energy-efficient subcarrier optimization scheme based on particle swarm for green radio wireless networks 2013 ,		1
11	Categorizing Diseases from Leaf Images Using a Hybrid Learning Model. <i>Symmetry</i> , 2021 , 13, 2073	2.7	1
10	Sustainable Delay Minimization Strategy for Mobile Edge Computing Offloading under Different Network Scenarios. <i>Sustainability</i> , 2021 , 13, 12112	3.6	1
9	A Review on Intelligent Base Stations Cooperation Management Techniques for Greener LTE Cellular Networks. <i>Journal of Communications</i> , 2014 ,	0.5	1
8	Power Quality Enhancement in Electric Arc Furnace Using Matrix Converter and Static VAR Compensator. <i>Electronics (Switzerland)</i> , 2021 , 10, 1125	2.6	1
7	Electrical and Mechanical Characteristics Assessment of Wind Turbine System Employing Acoustic Sensors and Matrix Converter. <i>Sustainability</i> , 2022 , 14, 4404	3.6	1
6	An Efficient Genetic Hybrid PAPR Technique for 5G Waveforms. <i>Computers, Materials and Continua</i> , 2021 , 67, 3283-3292	3.9	0

5	Design of Biodegradable Mg Alloy for Abdominal Aortic Aneurysm Repair (AAAR) Using ANFIS Regression Model. <i>IEEE Access</i> , 2022 , 10, 28579-28589	3.5	o
4	An Efficient Multidocument Blind Signcryption Scheme for Smart Grid-Enabled Industrial Internet of Things. <i>Wireless Communications and Mobile Computing</i> , 2022 , 2022, 1-7	1.9	o
3	A Novel Forward-Propagation Workflow Assessment Method for Malicious Packet Detection. <i>Sensors</i> , 2022 , 22, 4167	3.8	o
2	Cell-Coverage-Area Optimization Based on Particle Swarm Optimization (PSO) for Green Macro Long-Term Evolution (LTE) Cellular Networks 2015 , 245-262		
1	Application of Differential Geometry to the Array Manifolds of Linear Arrays in Antenna Array Processing. <i>Electronics (Switzerland)</i> , 2021 , 10, 2964	2.6	