Mohammed H Alsharif

List of Publications by Year in Descending Order

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	An Efficient Certificate-Based Aggregate Signature Scheme for Internet of Drones. *Security and Communication Networks*, **2022**, 2022, 1-9	1.9	5
93	A contemporary survey on free space optical communication: Potentials, technical challenges, recent advances and research direction. *Journal of Network and Computer Applications*, **2022**, 200, 103311	7.9	11
92	Design of a Low-Cost Air Quality Monitoring System Using Arduino and ThingSpeak. *Computers, Materials and Continua*, **2022**, 70, 151-169	3.9	2
91	Design of Biodegradable Mg Alloy for Abdominal Aortic Aneurysm Repair (AAAR) Using ANFIS Regression Model. *IEEE Access*, **2022**, 10, 28579-28589	3.5	0
90	An Efficient Multidocument Blind Signcryption Scheme for Smart Grid-Enabled Industrial Internet of Things. *Wireless Communications and Mobile Computing*, **2022**, 2022, 1-7	1.9	0
89	Blockchain Based Authentication and Cluster Head Selection Using DDR-LEACH in Internet of Sensor Things.. *Sensors*, **2022**, 22,	3.8	4
88	Electrical and Mechanical Characteristics Assessment of Wind Turbine System Employing Acoustic Sensors and Matrix Converter. *Sustainability*, **2022**, 14, 4404	3.6	1
87	A Hybrid Multi-Objective Optimizer-Based SVM Model for Enhancing Numerical Weather Prediction: A Study for the Seoul Metropolitan Area. *Sustainability*, **2022**, 14, 296	3.6	6
86	Topology-Based Routing Protocols and Mobility Models for Flying Ad Hoc Networks: A Contemporary Review and Future Research Directions. *Drones*, **2022**, 6, 9	5.4	10
85	A Novel Forward-Propagation Workflow Assessment Method for Malicious Packet Detection. *Sensors*, **2022**, 22, 4167	3.8	0
84	Re-Allocation of Distributed Generations Using Available Renewable Potential Based Multi-Criterion-Multi-Objective Hybrid Technique. *Sustainability*, **2021**, 13, 13709	3.6	2
83	Categorizing Diseases from Leaf Images Using a Hybrid Learning Model. *Symmetry*, **2021**, 13, 2073	2.7	1
82	Sustainable Delay Minimization Strategy for Mobile Edge Computing Offloading under Different Network Scenarios. *Sustainability*, **2021**, 13, 12112	3.6	1
81	Application of Differential Geometry to the Array Manifolds of Linear Arrays in Antenna Array Processing. *Electronics (Switzerland)*, **2021**, 10, 2964	2.6	
80	A Multi-Message Multi-Receiver Signcryption Scheme with Edge Computing for Secure and Reliable Wireless Internet of Medical Things Communications. *Sustainability*, **2021**, 13, 13184	3.6	2
79	An Anonymous Certificateless Signcryption Scheme for Secure and Efficient Deployment of Internet of Vehicles. *Sustainability*, **2021**, 13, 10891	3.6	2
78	A Novel Multiobjective Hybrid Technique for Siting and Sizing of Distributed Generation and Capacitor Banks in Radial Distribution Systems. *Sustainability*, **2021**, 13, 3308	3.6	15

77	Design and Experimental Analysis of Multiband Compound Reconfigurable 5G Antenna for Sub-6 GHz Wireless Applications. *Wireless Communications and Mobile Computing*, **2021**, 2021, 1-14	1.9	6
76	Assessment and Integration of Renewable Energy Resources Installations with Reactive Power Compensator in Indian Utility Power System Network. *Electronics (Switzerland)*, **2021**, 10, 912	2.6	4
75	Power Quality Enhancement in Electric Arc Furnace Using Matrix Converter and Static VAR Compensator. *Electronics (Switzerland)*, **2021**, 10, 1125	2.6	1
74	A secure and improved multi server authentication protocol using fuzzy commitment. *Multimedia Tools and Applications*, **2021**, 80, 16907-16931	2.5	3
73	Low Complexity Linear Detectors for Massive MIMO: A Comparative Study. *IEEE Access*, **2021**, 9, 45740-45753	3.5	8
72	An Efficient Genetic Hybrid PAPR Technique for 5G Waveforms. *Computers, Materials and Continua*, **2021**, 67, 3283-3292	3.9	0
71	Frequency Reconfigurable Antenna for Portable Wireless Applications. *Computers, Materials and Continua*, **2021**, 68, 3015-3027	3.9	5
70	Long-Term Techno-Economic Analysis of Sustainable and Zero Grid Cellular Base Station. *IEEE Access*, **2021**, 9, 54159-54172	3.5	7
69	Toward Optimal Cost-Energy Management Green Framework for Sustainable Future Wireless Networks. *Computers, Materials and Continua*, **2021**, 68, 1321-1339	3.9	2
68	Powering Mobile Networks with Optimal Green Energy for Sustainable Development. *Computers, Materials and Continua*, **2021**, 69, 661-677	3.9	2
67	Frequency Reconfigurable Antenna for Multi Standard Wireless and Mobile Communication Systems. *Computers, Materials and Continua*, **2021**, 68, 2563-2578	3.9	3
66	Optimal Cost-Aware Paradigm for Off-Grid Green Cellular Networks in Oman. *Computers, Materials and Continua*, **2021**, 68, 2665-2680	3.9	2
65	Design and Validation of BAT Algorithm-Based Photovoltaic System Using Simplified High Gain Quasi Boost Inverter. *Energies*, **2021**, 14, 1086	3.1	3
64	Techno-Economic Investigation of Wind Energy Potential in Selected Sites with Uncertainty Factors. *Sustainability*, **2021**, 13, 2182	3.6	4
63	Autonomous Fuzzy Controller Design for the Utilization of Hybrid PV-Wind Energy Resources in Demand Side Management Environment. *Electronics (Switzerland)*, **2021**, 10, 1618	2.6	7
62	. *IEEE Systems Journal*, **2021**, 15, 4431-4438	4.3	22
61	Automated Triage System for Intensive Care Admissions during the COVID-19 Pandemic Using Hybrid XGBoost-AHP Approach. *Sensors*, **2021**, 21,	3.8	8
60	Toward 6G Communication Networks: Terahertz Frequency Challenges and Open Research Issues. *Computers, Materials and Continua*, **2021**, 66, 2831-2842	3.9	5

59	A Provable and Privacy-Preserving Authentication Scheme for UAV-Enabled Intelligent Transportation Systems. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	16
58	. *IEEE Access*, **2021**, 9, 38833-38858	3.5	21
57	. *IEEE Access*, **2021**, 1-1	3.5	2
56	Manifold Optimization for High-Accuracy Spatial Location Estimation Using Ultrasound Waves. *IEEE Transactions on Signal Processing*, **2021**, 69, 5078-5093	4.8	2
55	A User Cooperation Approach for Interference Cancellation in FDD Massive MIMO Systems. *Electronics (Switzerland)*, **2020**, 9, 1679	2.6	1
54	Multi-Objective Optimum Design of Hybrid Renewable Energy System for Sustainable Energy Supply to a Green Cellular Networks. *Sustainability*, **2020**, 12, 3536	3.6	13
53	A Privacy Preserving Authentication Scheme for Roaming in IoT-Based Wireless Mobile Networks. *Symmetry*, **2020**, 12, 287	2.7	15
52	Artificial Intelligence: An Energy Efficiency Tool for Enhanced High performance computing. *Symmetry*, **2020**, 12, 1029	2.7	2
51	A Robust Hybrid Iterative Linear Detector for Massive MIMO Uplink Systems. *Symmetry*, **2020**, 12, 306	2.7	4
50	Impact of Stair and Diagonal Matrices in Iterative Linear Massive MIMO Uplink Detectors for 5G Wireless Networks. *Symmetry*, **2020**, 12, 71	2.7	5
49	Correcting design flaws: An improved and cloud assisted key agreement scheme in cyber physical systems. *Computer Communications*, **2020**, 153, 527-537	5.1	52
48	A Low Complexity Near-Optimal Iterative Linear Detector for Massive MIMO in Realistic Radio Channels of 5G Communication Systems. *Entropy*, **2020**, 22,	2.8	6
47	Sixth Generation (6G) Wireless Networks: Vision, Research Activities, Challenges and Potential Solutions. *Symmetry*, **2020**, 12, 676	2.7	88
46	Artificial intelligence technology for diagnosing COVID-19 cases: a review of substantial issues. *European Review for Medical and Pharmacological Sciences*, **2020**, 24, 9226-9233	2.9	6
45	. *IEEE Systems Journal*, **2020**, 1-8	4.3	16
44	Deep learning applications to combat the dissemination of COVID-19 disease: a review. *European Review for Medical and Pharmacological Sciences*, **2020**, 24, 11455-11460	2.9	15
43	Application of machine intelligence technology in the detection of vaccines and medicines for SARS-CoV-2. *European Review for Medical and Pharmacological Sciences*, **2020**, 24, 11977-11981	2.9	5
42	MIMO-Terahertz in 6G Nano-Communications: Channel Modeling and Analysis. *Computers, Materials and Continua*, **2020**, 66, 263-274	3.9	11

41	Analyzing and evaluating the energy efficiency based on multi-5G small cells with a mm-waves in the next generation cellular networks. *International Journal of Electrical and Computer Engineering*, **2020**, 10, 3492	1.4	2
40	Strategic Market Growth and Policy Recommendations for Sustainable Solar Energy Deployment in South Korea. *Journal of Electrical Engineering and Technology*, **2020**, 15, 803-815	1.4	15
39	Machine Learning Algorithms for Smart Data Analysis in Internet of Things Environment: Taxonomies and Research Trends. *Symmetry*, **2020**, 12, 88	2.7	37
38	Design of Rotor Blades for Vertical Axis Wind Turbine with Wind Flow Modifier for Low Wind Profile Areas. *Sustainability*, **2020**, 12, 8050	3.6	10
37	Comparative Analysis of Data Detection Techniques for 5G Massive MIMO Systems. *Sustainability*, **2020**, 12, 9281	3.6	2
36	Renewable Energy-Aware Sustainable Cellular Networks with Load Balancing and Energy-Sharing Technique. *Sustainability*, **2020**, 12, 9340	3.6	9
35	Future 5G Network Based Smart Hospitals: Hybrid Detection Technique for Latency Improvement. *IEEE Access*, **2020**, 8, 153240-153249	3.5	21
34	Towards Energy Efficient Load Balancing for Sustainable Green Wireless Networks Under Optimal Power Supply. *IEEE Access*, **2020**, 8, 200635-200654	3.5	7
33	Notice of Retraction: Enabling Hardware Green Internet of Things: A review of Substantial Issues. *IEEE Access*, **2020**, 1-1	3.5	5
32	An Efficient Algorithm for mmWave MIMO Systems. *Symmetry*, **2019**, 11, 786	2.7	3
31	Energy Efficiency and Coverage Trade-Off in 5G for Eco-Friendly and Sustainable Cellular Networks. *Symmetry*, **2019**, 11, 408	2.7	17
30	Small Cells Integration with the Macro-Cell Under LTE Cellular Networks and Potential Extension for 5G. *Journal of Electrical Engineering and Technology*, **2019**, 14, 2455-2465	1.4	9
29	Time Series ARIMA Model for Prediction of Daily and Monthly Average Global Solar Radiation: The Case Study of Seoul, South Korea. *Symmetry*, **2019**, 11, 240	2.7	70
28	Energy Harvesting Techniques for Wireless Sensor Networks/Radio-Frequency Identification: A Review. *Symmetry*, **2019**, 11, 865	2.7	34
27	Evaluation and forecasting of solar radiation using time series adaptive neuro-fuzzy inference system: Seoul city as a case study. *IET Renewable Power Generation*, **2019**, 13, 1711-1723	2.9	9
26	The Four-C Framework for High Capacity Ultra-Low Latency in 5G Networks: A Review. *Energies*, **2019**, 12, 3449	3.1	8
25	Robust Hybrid Beamforming Scheme for Millimeter-Wave Massive-MIMO 5G Wireless Networks. *Symmetry*, **2019**, 11, 1424	2.7	15
24	Energy Optimization Strategies for Eco-Friendly Cellular Base Stations. *Energies*, **2018**, 11, 1500	3.1	8

23	Opportunities and Challenges of Solar and Wind Energy in South Korea: A Review. *Sustainability*, **2018**, 10, 1822	3.6	29
22	How to make key 5G wireless technologies environmental friendly: A review. *Transactions on Emerging Telecommunications Technologies*, **2018**, 29, e3254	1.9	23
21	Intelligent cooperation management of multi-radio access technology towards the green cellular networks for the twenty-twenty information society. *Telecommunication Systems*, **2017**, 65, 497-510	2.3	9
20	Optimization design and economic analysis of energy management strategy based on photovoltaic/energy storage for heterogeneous cellular networks using the HOMER model. *Solar Energy*, **2017**, 147, 133-150	6.8	21
19	Evolution towards fifth generation (5G) wireless networks: Current trends and challenges in the deployment of millimetre wave, massive MIMO, and small cells. *Telecommunication Systems*, **2017**, 64, 617-637	2.3	91
18	Hybrid Off-Grid SPV/WTG Power System for Remote Cellular Base Stations Towards Green and Sustainable Cellular Networks in South Korea. *Energies*, **2017**, 10, 9	3.1	36
17	Techno-Economic Evaluation of a Stand-Alone Power System Based on Solar Power/Batteries for Global System for Mobile Communications Base Stations. *Energies*, **2017**, 10, 392	3.1	17
16	A Solar Energy Solution for Sustainable Third Generation Mobile Networks. *Energies*, **2017**, 10, 429	3.1	13
15	Green and Sustainable Cellular Base Stations: An Overview and Future Research Directions. *Energies*, **2017**, 10, 587	3.1	47
14	Comparative Analysis of Solar-Powered Base Stations for Green Mobile Networks. *Energies*, **2017**, 10, 1208	3.1	11
13	Green wireless network optimisation strategies within smart grid environments for Long Term Evolution (LTE) cellular networks in Malaysia. *Renewable Energy*, **2016**, 85, 157-170	8.1	20
12	Intelligent cooperation management among solar powered base stations towards a green cellular network in a country with an equatorial climate. *Telecommunication Systems*, **2016**, 62, 179-198	2.3	3
11	Optimal Solar Power System for Remote Telecommunication Base Stations: A Case Study Based on the Characteristics of South Korea Solar Radiation Exposure. *Sustainability*, **2016**, 8, 942	3.6	31
10	Cooperation Management Among Base Stations Based on Cells Switch-Off for a Green LTE Cellular Network. *Wireless Personal Communications*, **2015**, 81, 303-318	1.9	5
9	Cell-Coverage-Area Optimization Based on Particle Swarm Optimization (PSO) for Green Macro Long-Term Evolution (LTE) Cellular Networks **2015**, 245-262		
8	Energy optimisation of hybrid off-grid system for remote telecommunication base station deployment in Malaysia. *Eurasip Journal on Wireless Communications and Networking*, **2015**, 2015,	3.2	46
7	Exploiting Coexistence Between UMTS and LTE for Greener Cellular Networks with Particle Swarm Optimization. *Wireless Personal Communications*, **2015**, 85, 623-639	1.9	1
6	Energy Efficient and High Capacity Tradeoff in Distributed Antenna System for a Green Cellular Network. *Journal of Computer Networks and Communications*, **2015**, 2015, 1-9	2.5	3

5	**2014**,		3
4	Classification, Recent Advances and Research Challenges in Energy Efficient Cellular Networks. *Wireless Personal Communications*, **2014**, 77, 1249-1269	1.9	29
3	A Review on Intelligent Base Stations Cooperation Management Techniques for Greener LTE Cellular Networks. *Journal of Communications*, **2014**,	0.5	1
2	Energy-efficient subcarrier optimization scheme based on particle swarm for green radio wireless networks **2013**,		1
1	Survey of Green Radio Communications Networks: Techniques and Recent Advances. *Journal of Computer Networks and Communications*, **2013**, 2013, 1-13	2.5	47