

# Mahmoud A Albreem

## List of Publications by Year in descending order

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37  
papers

1,028  
citations

516710

16  
h-index

414414

32  
g-index

43  
all docs

43  
docs citations

43  
times ranked

798  
citing authors

#	ARTICLE	IF	CITATIONS
1	Massive MIMO Detection Techniques: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 3109-3132.	39.4	264
2	Sixth Generation (6G) Wireless Networks: Vision, Research Activities, Challenges and Potential Solutions. Symmetry, 2020, 12, 676.	2.2	207
3	Green Internet of Things (GloT): Applications, Practices, Awareness, and Challenges. IEEE Access, 2021, 9, 38833-38858.	4.2	66
4	Overview of Precoding Techniques for Massive MIMO. IEEE Access, 2021, 9, 60764-60801.	4.2	60
5	Future 5G Network Based Smart Hospitals: Hybrid Detection Technique for Latency Improvement. IEEE Access, 2020, 8, 153240-153249.	4.2	47
6	Robust Hybrid Beamforming Scheme for Millimeter-Wave Massive-MIMO 5G Wireless Networks. Symmetry, 2019, 11, 1424.	2.2	38
7	Deep Learning for Massive MIMO Uplink Detectors. IEEE Communications Surveys and Tutorials, 2022, 24, 741-766.	39.4	32
8	A comprehensive study on the role of advanced technologies in 5G based smart hospital. AEJ - Alexandria Engineering Journal, 2021, 60, 5527-5536.	6.4	30
9	Low Complexity Linear Detectors for Massive MIMO: A Comparative Study. IEEE Access, 2021, 9, 45740-45753.	4.2	28
10	MIMO-Terahertz in 6G Nano-Communications: Channel Modeling and Analysis. Computers, Materials and Continua, 2020, 66, 263-274.	1.9	27
11	Deep learning applications to combat the dissemination of COVID-19 disease: a review. European Review for Medical and Pharmacological Sciences, 2020, 24, 11455-11460.	0.7	25
12	Design and Experimental Analysis of Multiband Compound Reconfigurable 5G Antenna for Sub-6GHz Wireless Applications. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	1.2	20
13	A Low Complexity Near-Optimal Iterative Linear Detector for Massive MIMO in Realistic Radio Channels of 5G Communication Systems. Entropy, 2020, 22, 388.	2.2	18
14	Long-Term Techno-Economic Analysis of Sustainable and Zero Grid Cellular Base Station. IEEE Access, 2021, 9, 54159-54172.	4.2	18
15	A review: detection techniques for LTE system. Telecommunication Systems, 2016, 63, 153-168.	2.5	16
16	Efficient initialisation of iterative linear massive MIMO detectors using a stair matrix. Electronics Letters, 2020, 56, 50-52.	1.0	16
17	Regularized Lattice Sphere Decoding for Block Data Transmission Systems. Wireless Personal Communications, 2015, 82, 1833-1850.	2.7	15
18	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.	0.7	11

#	ARTICLE	IF	CITATIONS
19	Reduced complexity optimum detector for block data transmission systems using Lattice Sphere Decoding technique. IEICE Electronics Express, 2011, 8, 644-649.	0.8	10
20	Comparative Analysis of Data Detection Techniques for 5G Massive MIMO Systems. Sustainability, 2020, 12, 9281.	3.2	10
21	A Robust Hybrid Iterative Linear Detector for Massive MIMO Uplink Systems. Symmetry, 2020, 12, 306.	2.2	10
22	An Efficient Lattice Sphere Decoding Technique for Multi-Carrier Systems. Wireless Personal Communications, 2015, 82, 1825-1831.	2.7	9
23	Lattice Sphere Decoding for Data Transmission Systems with Special Channel Matrices. Wireless Personal Communications, 2014, 79, 265-277.	2.7	8
24	Matrix Decomposition for Massive MIMO Detection. , 2020, , .		7
25	Artificial intelligence technology for diagnosing COVID-19 cases: a review of substantial issues. European Review for Medical and Pharmacological Sciences, 2020, 24, 9226-9233.	0.7	7
26	Efficient Hybrid Linear Massive MIMO Detector Using Gauss-Seidel And Successive Over-Relaxation. International Journal of Wireless Information Networks, 2020, 27, 551-557.	2.7	6
27	Extended Signed Quadrature Spatial Modulation System With Multi-User Support. IEEE Transactions on Broadcasting, 2021, 67, 868-878.	3.2	6
28	Impact of Stair and Diagonal Matrices in Iterative Linear Massive MIMO Uplink Detectors for 5G Wireless Networks. Symmetry, 2020, 12, 71.	2.2	5
29	Toward Optimal Cost-Energy Management Green Framework for Sustainable Future Wireless Networks. Computers, Materials and Continua, 2021, 68, 1321-1339.	1.9	2
30	Optimal Cost-Aware Paradigm for Off-Grid Green Cellular Networks in Oman. Computers, Materials and Continua, 2021, 68, 2665-2680.	1.9	2
31	Beamspace channel estimation in wideband lens antenna array-based mmWave mMIMO-OFDM systems under beam squint. Physical Communication, 2022, 50, 101512.	2.1	2
32	A Low Complexity Detector for Massive MIMO Uplink Systems. The National Academy of Sciences, India, 2021, 44, 545.	1.3	1
33	FPGA Implementation of Stair Matrix based Massive MIMO Detection. , 2021, , .		1
34	Encryption Techniques and Wireless Power Transfer Schemes. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 9, 183.	0.8	1
35	Matlab Simulink Simulation of Respiratory Effort Energy Harvester Using Electromagnetic Generator. Applied Mechanics and Materials, 0, 793, 417-421.	0.2	0
36	Efficient Iterative Massive MIMO Detectors Based on Iterative Matrix Inversion Methods. Advances in Wireless Technologies and Telecommunication Book Series, 2021, , 175-195.	0.4	0

#	ARTICLE	IF	CITATIONS
37	Data detection in decentralized and distributed massive MIMO networks. Computer Communications, 2022, 189, 79-99.	5.1	0