

# Mohammed El-Hajjar

## List of Publications by Year in Descending Order

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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.

104  
papers

2,258  
citations

22  
h-index

44  
g-index

129  
ext. papers

2,889  
ext. citations

6.4  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
104	Reconfigurable Intelligent Surfaces Relying on Non-Diagonal Phase Shift Matrices. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	5
103	Analog Radio Over Fiber-Aided Multi-Service Communications for High-Speed Trains. <i>IEEE Open Journal of the Communications Society</i> , <b>2022</b> , 3, 424-434	6.7	
102	Intelligent Caching in UAV-Aided Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	0
101	Millimeter-wave enabled PAM-4 data transmission over hybrid FSO-MMPOF link for access networks. <i>Optical Review</i> , <b>2021</b> , 28, 278-288	0.9	1
100	Analog Radio-over-Fiber-Aided Optical-Domain MIMO Signal Processing for High-Performance Low-Cost Radio Access Networks. <i>IEEE Communications Magazine</i> , <b>2021</b> , 59, 126-132	9.1	2
99	Millimeter-Wave Based Localization Using a Two-Stage Channel Estimation Relying on Few-Bit ADCs. <i>IEEE Open Journal of the Communications Society</i> , <b>2021</b> , 2, 1736-1752	6.7	1
98	. <i>IEEE Access</i> , <b>2020</b> , 8, 49584-49595	3.5	3
97	Optimal-Power Superposition Modulation for Scalable Video Broadcasting. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 16230-16234	6.8	
96	Linearly polarised modes enabled PAM-4 data transmission over few-mode fibre for data centre interconnect. <i>Electronics Letters</i> , <b>2020</b> , 56, 1125-1127	1.1	2
95	Near-Instantaneously Adaptive Multi-Set Space-Time Shift Keying for UAV-Aided Video Surveillance. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 12843-12856	6.8	2
94	Scalable Panoramic Wireless Video Streaming Relying on Optimal-Rate FEC-Coded Adaptive QAM. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 11206-11219	6.8	3
93	Machine Learning Assisted Adaptive Index Modulation for mmWave Communications. <i>IEEE Open Journal of the Communications Society</i> , <b>2020</b> , 1, 1425-1441	6.7	5
92	Deep Learning Assisted Detection for Index Modulation Aided mmWave Systems. <i>IEEE Access</i> , <b>2020</b> , 8, 202738-202754	3.5	2
91	A full-duplex radio over fiber architecture employing 12 Gbps 16 × 16 optical multiple input multiple output for next-generation communication networks. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2020</b> , 31, e3910	1.9	4
90	Deep Learning Aided Fingerprint-Based Beam Alignment for mmWave Vehicular Communication. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 10858-10871	6.8	23
89	Multi-User Full Duplex Transceiver Design for mmWave Systems Using Learning-Aided Channel Prediction. <i>IEEE Access</i> , <b>2019</b> , 7, 66068-66083	3.5	8
88	Differential-Detection Aided Large-Scale Generalized Spatial Modulation is Capable of Operating in High-Mobility Millimeter-Wave Channels. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2019</b> , 13, 1360-1374	7.5	20

87	Multi-Set Space-Time Shift Keying Assisted Adaptive Inter-Layer FEC for Wireless Video Streaming. <i>IEEE Access</i> , <b>2019</b> , 7, 3592-3609	3.5	6
86	VLSI Implementation of a Fully-Pipelined K-Best MIMO Detector with Successive Interference Cancellation. <i>Circuits, Systems, and Signal Processing</i> , <b>2019</b> , 38, 4739-4761	2.2	2
85	Compressed Sensing-Aided Multi-Dimensional Index Modulation. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 4074-4087	6.9	10
84	Multi-User Hybrid Beamforming Relying on Learning-Aided Link-Adaptation for mmWave Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 23197-23209	3.5	10
83	Analogue Radio Over Fiber Aided MIMO Design for the Learning Assisted Adaptive C-RAN Downlink. <i>IEEE Access</i> , <b>2019</b> , 7, 21359-21371	3.5	11
82	Two-Dimensional Index Modulation for the Large-Scale Multi-User MIMO Uplink. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 7904-7918	6.8	9
81	Design and evaluation of plagiarism prevention and detection techniques in engineering education. <i>Higher Education Pedagogies</i> , <b>2019</b> , 4, 197-208	1.2	3
80	Small-Spot Direct UV Written Fiber Bragg Gratings in Multicore Fiber <b>2019</b> ,		1
79	Analogue Wireless Beamforming Exploiting the Fiber-Nonlinearity of Radio Over Fiber-Based C-RANs. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 2802-2813	6.8	10
78	Hybrid Beamforming Design for Full-Duplex Millimeter Wave Communication. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 1394-1404	6.8	50
77	A Noncoherent Multiuser Large-Scale SIMO System Relying on M-Ary DPSK and BICM-ID. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 1809-1814	6.8	17
76	Joint-Alphabet Space Time Shift Keying in mm-Wave Non-Orthogonal Multiple Access. <i>IEEE Access</i> , <b>2018</b> , 6, 22602-22621	3.5	10
75	Adaptive Transceiver Design for C-RAN in mmWave Communications. <i>IEEE Access</i> , <b>2018</b> , 6, 16770-16782	3.5	9
74	Millimeter-Wave Communications: Physical Channel Models, Design Considerations, Antenna Constructions, and Link-Budget. <i>IEEE Communications Surveys and Tutorials</i> , <b>2018</b> , 20, 870-913	37.1	258
73	Hierarchical Multi-Functional Layered Spatial Modulation. <i>IEEE Access</i> , <b>2018</b> , 6, 9492-9533	3.5	10
72	Radio Over Fiber Downlink Design for Spatial Modulation and Multi-Set Space-Time Shift-Keying. <i>IEEE Access</i> , <b>2018</b> , 6, 21812-21827	3.5	5
71	Compressed-Sensing-Aided Space-Time Frequency Index Modulation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 6259-6271	6.8	32
70	Dual-Function Hybrid Beamforming and Transmit Diversity Aided Millimeter Wave Architecture. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 2798-2803	6.8	22

69	Experimental characterization of the radio over fiber aided twin-antenna spatial modulation downlink. <i>Optics Express</i> , <b>2018</b> , 26, 12432-12440	3.3	6
68	Hardware Efficient Architecture for Element-Based Lattice Reduction Aided K-Best Detector for MIMO Systems. <i>Journal of Sensor and Actuator Networks</i> , <b>2018</b> , 7, 22	3.8	5
67	Joint Space-Time Block-Coding and Beamforming for the Multiuser Radio Over Plastic Fiber Downlink. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 2781-2786	6.8	7
66	Compressed Sensing-Aided Index Modulation Improves Space-Time Shift Keying Assisted Millimeter-Wave Communications. <i>IEEE Access</i> , <b>2018</b> , 6, 64742-64756	3.5	8
65	Hybrid beamforming design for dual-polarised millimetre wave MIMO systems. <i>Electronics Letters</i> , <b>2018</b> , 54, 1257-1258	1.1	4
64	Multi-dimensional encryption scheme based on physical layer for fading channel. <i>IET Communications</i> , <b>2018</b> , 12, 2470-2477	1.3	2
63	Multi-Set Space-Time Shift Keying and Space- Frequency Space-Time Shift Keying for Millimeter-Wave Communications. <i>IEEE Access</i> , <b>2017</b> , 5, 8324-8342	3.5	23
62	A Survey of Network Lifetime Maximization Techniques in Wireless Sensor Networks. <i>IEEE Communications Surveys and Tutorials</i> , <b>2017</b> , 19, 828-854	37.1	335
61	Reduced-RF-Chain Aided Soft-Decision Multi-Set Steered Space-Time Shift-Keying for Millimeter-Wave Communications. <i>IEEE Access</i> , <b>2017</b> , 5, 7223-7243	3.5	11
60	Millimeter-Wave Transmission for Small-Cell Backhaul in Dense Urban Environment: a Solution Based on MIMO-OFDM and Space-Time Shift Keying (STSK). <i>IEEE Access</i> , <b>2017</b> , 5, 4000-4017	3.5	22
59	Multiuser Steered Multiset Space-Time Shift Keying for Millimeter-Wave Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 5491-5495	6.8	12
58	Millimeter Wave Hybrid Beamforming with DFT-MUB Aided Precoder Codebook Design <b>2017</b> ,		8
57	Mm-Wave STSK-aided Single Carrier block transmission for broadband networking <b>2017</b> ,		6
56	Performance of a Non-Coherent Massive SIMO M-DPSK System <b>2017</b> ,		4
55	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 1506-1521	6.8	15
54	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 1464-1476	6.8	14
53	Multi-Set Space-Time Shift-Keying With Reduced Detection Complexity. <i>IEEE Access</i> , <b>2016</b> , 4, 4234-4246	3.5	26
52	Element-based Lattice Reduction aided K-Best detector for large-scale MIMO systems <b>2016</b> ,		3

51	Optical single sideband signal generation relying on a single-drive MachZehnder modulator for radio over fibre communications. <i>IET Communications</i> , <b>2016</b> , 10, 534-539	1.3	4
50	Plagiarism detection and prevention techniques in engineering education <b>2016</b> ,		7
49	Layered Multi-Group Steered Space-Time Shift-Keying for Millimeter-Wave Communications. <i>IEEE Access</i> , <b>2016</b> , 4, 3708-3718	3.5	23
48	. <i>IEEE Communications Surveys and Tutorials</i> , <b>2016</b> , 18, 29-53	37.1	43
47	Error Vector Magnitude Analysis of Fading SIMO Channels Relying on MRC Reception. <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 1786-1797	6.9	11
46	A Survey of VLSI Implementations of Tree Search Algorithms for MIMO Detection. <i>Circuits, Systems, and Signal Processing</i> , <b>2016</b> , 35, 3644-3674	2.2	5
45	Energy-Efficient Hardware Implementation of an LR-Aided K-Best MIMO Decoder for 5G Networks. <i>Journal of Low Power Electronics and Applications</i> , <b>2016</b> , 6, 12	1.7	
44	Buffer-aided relaying for the multi-user uplink: outage analysis and power allocation. <i>IET Communications</i> , <b>2016</b> , 10, 936-944	1.3	4
43	Outage Analysis of Superposition-Modulation-Aided Network-Coded Cooperation in the Presence of Network Coding Noise. <i>IEEE Transactions on Vehicular Technology</i> , <b>2015</b> , 64, 493-501	6.8	9
42	Performance Improvement and Cost Reduction Techniques for Radio Over Fiber Communications. <i>IEEE Communications Surveys and Tutorials</i> , <b>2015</b> , 17, 627-670	37.1	79
41	Phase rotation-based precoding for spatial modulation systems. <i>IET Communications</i> , <b>2015</b> , 9, 1315-1323	1.3	18
40	Simultaneous Optical Phase and Intensity Modulation Transmits Independent Signals in Radio Over Fiber Communication. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 557-560	3.8	4
39	Cross-Layer Network Lifetime Maximization in Interference-Limited WSNs. <i>IEEE Transactions on Vehicular Technology</i> , <b>2015</b> , 64, 3795-3803	6.8	53
38	Single ODSB Radio-Over-Fiber Signal Supports STBC at Each RAP. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 1331-1334	3.8	4
37	. <i>IEEE Microwave Magazine</i> , <b>2015</b> , 16, 64-78	1.2	12
36	VLSI implementation of a scalable K-best MIMO detector <b>2015</b> ,		6
35	Experimental demonstration of plastic optical fibre-based digitised radio over fibre downlink. <i>Electronics Letters</i> , <b>2015</b> , 51, 1679-1681	1.1	0
34	Power Allocation-Aided Spatial Modulation for Limited-Feedback MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2015</b> , 64, 2198-2204	6.8	78

33	Network-Lifetime Maximization of Wireless Sensor Networks. <i>IEEE Access</i> , <b>2015</b> , 3, 2191-2226	3.5	42
32	Pilot Contamination Elimination for Large-Scale Multiple-Antenna Aided OFDM Systems. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2014</b> , 8, 759-772	7.5	104
31	. <i>IEEE Transactions on Multimedia</i> , <b>2014</b> , 16, 697-710	6.6	20
30	Demonstrating the practical challenges of wireless communications using USRP <b>2014</b> , 52, 194-201		17
29	Opportunistic Relay Selection for Cooperative Relaying in Cochannel Interference Contaminated Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 2455-2461	6.8	3
28	Star-QAM Signaling Constellations for Spatial Modulation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 3741-3749	6.8	44
27	EXIT Charts for System Design and Analysis. <i>IEEE Communications Surveys and Tutorials</i> , <b>2014</b> , 16, 127-153	7.1	81
26	Cross-layer network lifetime optimisation considering transmit and signal processing power in wireless sensor networks. <i>IET Wireless Sensor Systems</i> , <b>2014</b> , 4, 176-182	1.6	14
25	. <i>IEEE Vehicular Technology Magazine</i> , <b>2014</b> , 9, 104-112	9.9	9
24	A Full-Duplex Diversity-Assisted Hybrid Analogue/Digitized Radio Over Fibre for Optical/Wireless Integration. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 409-412	3.8	13
23	Baseband Radio over Fiber Aided Millimeter-Wave Distributed Antenna for Optical/Wireless Integration. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 1012-1015	3.8	11
22	Inter-Layer FEC Aided Unequal Error Protection for Multilayer Video Transmission in Mobile TV. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2013</b> , 23, 1622-1634	6.4	32
21	A Survey of Digital Television Broadcast Transmission Techniques. <i>IEEE Communications Surveys and Tutorials</i> , <b>2013</b> , 15, 1924-1949	37.1	47
20	Distributed Multiple-Component Turbo Codes for Cooperative Hybrid ARQ. <i>IEEE Signal Processing Letters</i> , <b>2013</b> , 20, 599-602	3.2	12
19	Detect-and-Forward Relaying Aided Cooperative Spatial Modulation for Wireless Networks. <i>IEEE Transactions on Communications</i> , <b>2013</b> , 61, 4500-4511	6.9	30
18	Inter-layer-decoding aided self-concatenated coded scalable video transmission <b>2013</b> ,		2
17	Near-Capacity Wireless Transceivers and Cooperative Communications in the MIMO Era: Evolution of Standards, Waveform Design, and Future Perspectives. <i>Proceedings of the IEEE</i> , <b>2011</b> , 99, 1343-1385	14.3	54
16	Performance of the Space-Time Block Coded DS-CDMA Uplink Employing Soft-Output ACO-Aided Multiuser Space-Time Detection and Iterative Decoding <b>2010</b> ,		1

15	On Multidimensional BICM-ID Constellation Labelling <b>2010</b> ,		3
14	Multifunctional MIMO systems: A combined diversity and multiplexing design perspective. <i>IEEE Wireless Communications</i> , <b>2010</b> , 17, 73-79	13.4	29
13	Layered Steered Space-Time-Spreading-Aided Generalized MC DS-CDMA. <i>IEEE Transactions on Vehicular Technology</i> , <b>2010</b> , 59, 999-1005	6.8	8
12	Dispensing with Channel Estimation <i>IEEE Vehicular Technology Magazine</i> , <b>2010</b> , 5, 42-48	9.9	5
11	Layered steered space-time codes using multi-dimensional sphere packing modulation. <i>IEEE Transactions on Wireless Communications</i> , <b>2009</b> , 8, 3335-3340	9.6	17
10	Iterative AMR-WB Source and Channel Decoding Using Differential Space-Time Spreading-Assisted Sphere-Packing Modulation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2009</b> , 58, 484-490	6.8	7
9	<b>2009</b> ,		178
8	Turbo Detection of Precoded Sphere Packing Modulation Using Four Transmit Antennas for Differential Space-Time Spreading. <i>IEEE Transactions on Wireless Communications</i> , <b>2008</b> , 7, 943-952	9.6	12
7	A Systematic Luby Transform Coded V-BLAST System <b>2008</b> ,		3
6	Over-Complete Mapping Aided, Soft-Bit Assisted Iterative Unequal Error Protection H.264 Joint Source and Channel Decoding <b>2008</b> ,		4
5	Near-Instantaneously Adaptive Cooperative Uplink Schemes Based on Space-Time Block Codes and V-Blast. <i>IEEE Vehicular Technology Conference</i> , <b>2007</b> ,	0.1	8
4	Layered steered space-time codes and their capacity. <i>Electronics Letters</i> , <b>2007</b> , 43, 680	1.1	8
3	Iteratively Detected Irregular Variable Length Coding and Sphere-Packing Modulation-Aided Differential Space-Time Spreading. <i>Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE</i> , <b>2007</b> ,		2
2	Coherent and Differential Downlink Space-Time Steering Aided Generalised Multicarrier DS-CDMA. <i>IEEE Transactions on Wireless Communications</i> , <b>2007</b> , 6, 3857-3863	9.6	4
1	Differential space-time spreading using iteratively detected sphere packing modulation and two transmit antennas <b>2006</b> ,		3