

Ahmed Alkhateeb

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.

64

papers

7,717

citations

29

h-index

72

g-index

72

ext. papers

10,042

ext. citations

7

avg. IF

6.88

L-index

#	Paper	IF	Citations
64	Design and Evaluation of Reconfigurable Intelligent Surfaces in Real-World Environment. <i>IEEE Open Journal of the Communications Society</i> , 2022 , 3, 462-474	6.7	7
63	Blockage Prediction Using Wireless Signatures: Deep Learning Enables Real-World Demonstration. <i>IEEE Open Journal of the Communications Society</i> , 2022 , 3, 776-796	6.7	0
62	Neural Networks Based Beam Codebooks: Learning mmWave Massive MIMO Beams that Adapt to Deployment and Hardware. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	3
61	Enabling Cell-Free Massive MIMO Systems with Wireless Millimeter Wave Fronthaul. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	2
60	Reinforcement Learning of Beam Codebooks in Millimeter Wave and Terahertz MIMO Systems. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	4
59	Vision-Aided Dynamic Blockage Prediction for 6G Wireless Communication Networks 2021 ,		5
58	Deep Learning for THz Drones with Flying Intelligent Surfaces: Beam and Handoff Prediction 2021 ,		6
57	Deep Multimodal Learning: Merging Sensory Data for Massive MIMO Channel Prediction. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 1885-1898	14.2	5
56	Deep Learning Predictive Band Switching in Wireless Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 96-109	9.6	7
55	Deep Learning based Antenna Selection and CSI Extrapolation in Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	10
54	Vision-Aided 6G Wireless Communications: Blockage Prediction and Proactive Handoff. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	11
53	Deep Learning Based Channel Covariance Matrix Estimation with User Location and Scene Images. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	4
52	Enabling Large Intelligent Surfaces With Compressive Sensing and Deep Learning. <i>IEEE Access</i> , 2021 , 9, 44304-44321	3.5	110
51	Millimeter Wave MIMO-Based Depth Maps for Wireless Virtual and Augmented Reality. <i>IEEE Access</i> , 2021 , 9, 48341-48363	3.5	4
50	Deep Learning for Massive MIMO With 1-Bit ADCs: When More Antennas Need Fewer Pilots. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1273-1277	5.9	24
49	Deep Learning for mmWave Beam and Blockage Prediction Using Sub-6 GHz Channels. <i>IEEE Transactions on Communications</i> , 2020 , 68, 5504-5518	6.9	63
48	Millimeter Wave Base Stations with Cameras: Vision-Aided Beam and Blockage Prediction 2020 ,		23

47	Deep Learning Based MIMO Channel Prediction: An Initial Proof of Concept Prototype 2020 ,		2
46	Reinforcement Learning for Beam Pattern Design in Millimeter Wave and Massive MIMO Systems 2020 ,		2
45	Deep Reinforcement Learning for 5G Networks: Joint Beamforming, Power Control, and Interference Coordination. <i>IEEE Transactions on Communications</i> , 2020 , 68, 1581-1592	6.9	52
44	Deep Transfer Learning-Based Downlink Channel Prediction for FDD Massive MIMO Systems. <i>IEEE Transactions on Communications</i> , 2020 , 68, 7485-7497	6.9	38
43	3D Scene-Based Beam Selection for mmWave Communications. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1850-1854	5.9	17
42	ViWi: A Deep Learning Dataset Framework for Vision-Aided Wireless Communications 2020 ,		16
41	Deep Reinforcement Learning for Intelligent Reflecting Surfaces: Towards Standalone Operation 2020 ,		42
40	Advanced Receiver Architectures for Millimeter-Wave Communications with Low-Resolution ADCs. <i>IEEE Communications Magazine</i> , 2020 , 58, 42-48	9.1	7
39	Learning Beam Codebooks with Neural Networks: Towards Environment-Aware mmWave MIMO 2020 ,		9
38	Wireless Communications and Applications Above 100 GHz: Opportunities and Challenges for 6G and Beyond. <i>IEEE Access</i> , 2019 , 7, 78729-78757	3.5	580
37	Leveraging mmWave Imaging and Communications for Simultaneous Localization and Mapping 2019 ,		21
36	Deep Learning for Direct Hybrid Precoding in Millimeter Wave Massive MIMO Systems 2019 ,		39
35	Deep Learning for TDD and FDD Massive MIMO: Mapping Channels in Space and Frequency 2019 ,		53
34	Deep Learning for Large Intelligent Surfaces in Millimeter Wave and Massive MIMO Systems 2019 ,		53
33	Beamforming in Millimeter Wave Systems: Prototyping and Measurement Results 2018 ,		3
32	MACHINE LEARNING FOR RELIABLE MMWAVE SYSTEMS: BLOCKAGE PREDICTION AND PROACTIVE HANDOFF 2018 ,		50
31	Generative Adversarial Estimation of Channel Covariance in Vehicular Millimeter Wave Systems 2018 ,		16
30	Deep Learning Coordinated Beamforming for Highly-Mobile Millimeter Wave Systems. <i>IEEE Access</i> , 2018 , 6, 37328-37348	3.5	193

29	Multi-Layer Precoding: A Potential Solution for Full-Dimensional Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 5810-5824	9.6	23
28	Dynamic Subarrays for Hybrid Precoding in Wideband mmWave MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2907-2920	9.6	200
27	Initial Beam Association in Millimeter Wave Cellular Systems: Analysis and Design Insights. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2807-2821	9.6	70
26	Hybrid Architectures With Few-Bit ADC Receivers: Achievable Rates and Energy-Rate Tradeoffs. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2274-2287	9.6	120
25	Channel Estimation for Hybrid Architecture-Based Wideband Millimeter Wave Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2017 , 35, 1996-2009	14.2	190
24	Time-domain channel estimation for wideband millimeter wave systems with hybrid architecture 2017 ,		29
23	Gains of Restricted Secondary Licensing in Millimeter Wave Cellular Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 2935-2950	14.2	27
22	. <i>IEEE Transactions on Communications</i> , 2016 , 1-1	6.9	330
21	Dynamic subarray architecture for wideband hybrid precoding in millimeter wave massive MIMO systems 2016 ,		6
20	Gram Schmidt based greedy hybrid precoding for frequency selective millimeter wave MIMO systems 2016 ,		9
19	Millimeter Wave Energy Harvesting. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6048-6062	9.6	85
18	Hybrid MIMO Architectures for Millimeter Wave Communications: Phase Shifters or Switches?. <i>IEEE Access</i> , 2016 , 4, 247-267	3.5	458
17	Massive MIMO Combining with Switches. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 232-235	5.9	54
16	Restricted Secondary Licensing for mmWave Cellular: How Much Gain Can Be Obtained? 2016 ,		2
15	Frequency Selective Hybrid Precoding for Limited Feedback Millimeter Wave Systems. <i>IEEE Transactions on Communications</i> , 2016 , 64, 1801-1818	6.9	294
14	Achievable rates of multi-user millimeter wave systems with hybrid precoding 2015 ,		35
13	. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 6481-6494	9.6	663
12	A tractable model for per user rate in multiuser millimeter wave cellular networks 2015 ,		8

11	Channel estimation and hybrid combining for mmWave: Phase shifters or switches? 2015 ,		122
10	Energy Coverage in Millimeter Wave Energy Harvesting Networks 2015 ,		7
9	Opportunistic beam training with hybrid analog/digital codebooks for mmWave systems 2015 ,		20
8	Compressed sensing based multi-user millimeter wave systems: How many measurements are needed? 2015 ,		141
7	Channel Estimation and Hybrid Precoding for Millimeter Wave Cellular Systems. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2014 , 8, 831-846	7.5	1335
6	Coverage and capacity of millimeter-wave cellular networks 2014 , 52, 70-77		213
5	Initial beamforming for mmWave communications 2014 ,		68
4	MIMO Precoding and Combining Solutions for Millimeter-Wave Systems. <i>IEEE Communications Magazine</i> , 2014 , 52, 122-131	9.1	1490
3	Single-sided adaptive estimation of multi-path millimeter wave channels 2014 ,		28
2	Multi-layer precoding for full-dimensional massive MIMO systems 2014 ,		10
1	Hybrid precoding for millimeter wave cellular systems with partial channel knowledge 2013 ,		195