

Haiming Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Predictive Modeling of Millimeter-Wave Vegetation-Scattering Effect Using Hybrid Physics-Based and Data-Driven Approach. IEEE Transactions on Antennas and Propagation, 2022, 70, 4056-4068.	5.1	8
2	Single-Layer 1-Bit Prephased Single-Beam Metasurface Using True-Time Delayed Unit Cells. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1095-1099.	4.0	5
3	Multiple Angles of Arrival Estimation Using Broadband Signals and a Nonuniform Planar Array. IEEE Transactions on Communications, 2022, 70, 4093-4106.	7.8	3
4	Multibranch Machine Learning-Assisted Optimization and Its Application to Antenna Design. IEEE Transactions on Antennas and Propagation, 2022, 70, 4985-4996.	5.1	11
5	Ultracompact Dual-Polarized Cross-Dipole Antenna for a 5G Base Station Array With a Low Wind Load. IEEE Transactions on Antennas and Propagation, 2022, 70, 9315-9325.	5.1	2
6	Prephase-Based Equivalent Amplitude Tailoring for Low Sidelobe Levels of 1-Bit Phase-Only Control Metasurface Under Plane Wave Incidence. IEEE Transactions on Antennas and Propagation, 2022, 70, 10604-10613.	5.1	6
7	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	4.3	858
8	The Role of Millimeter-Wave Technologies in 5G/6G Wireless Communications. IEEE Journal of Microwaves, 2021, 1, 101-122.	6.5	312
9	High-throughput millimeter-wave wireless communications. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 437-440.	2.6	3
10	Radio propagation measurement and cluster-based analysis for millimeter-wave cellular systems in dense urban environments. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 471-487.	2.6	7
11	Broadband Extended Array Response-Based Subspace Multiparameter Estimation Method for Multipolarized Wireless Channel Measurements. IEEE Transactions on Communications, 2021, 69, 3298-3312.	7.8	4
12	A General 3D Space-Time-Frequency Non-Stationary THz Channel Model for 6G Ultra-Massive MIMO Wireless Communication Systems. IEEE Journal on Selected Areas in Communications, 2021, 39, 1576-1589.	14.0	49
13	Broadband Dual-Polarized Single-Layer Reflectarray Antenna With Independently Controllable 1-Bit Dual Beams. IEEE Transactions on Antennas and Propagation, 2021, 69, 3294-3302.	5.1	37
14	Low-Complexity Parameter Learning for OTFS Modulation Based Automotive Radar. , 2021, , .		15
15	Multipath Similarity Index Measure Across Multiple Frequency Bands. IEEE Wireless Communications Letters, 2021, 10, 1677-1681.	5.0	3
16	Multilayer Machine Learning-Assisted Optimization-Based Robust Design and Its Applications to Antennas and Array. IEEE Transactions on Antennas and Propagation, 2021, 69, 6052-6057.	5.1	31
17	A Novel 3D Non-Stationary GBSM for 6G THz Ultra-Massive MIMO Wireless Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 12312-12324.	6.3	26
18	Machine Learning Assisted Array Synthesis Under Mutual Coupling and Platform Effects. , 2021, , .		0

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19	Multipath Machine Learning Assisted Optimization and Its Application for Antenna Design. , 2021, , .		0
20	Single-layer Prephased 1-bit Metasurface Using True-time Delay for Symmetric Beam Suppression. , 2021, , .		0
21	Optimal Design of Wideband Bandpass SIW Filters for 5G Millimeter-Wave Applications. , 2021, , .		0
22	In-building coverage of millimeter-wave wireless networks from channel measurement and modeling perspectives. Science China Information Sciences, 2020, 63, 1.	4.3	8
23	Double-Layer Machine Learning Assisted optimization for Antenna Sensitivity Analysis. , 2020, , .		3
24	6G Wireless Channel Measurements and Models: Trends and Challenges. IEEE Vehicular Technology Magazine, 2020, 15, 22-32.	3.4	265
25	Machine-learning-assisted optimization and its application to antenna designs: Opportunities and challenges. China Communications, 2020, 17, 152-164.	3.2	41
26	One-bit Programmable Metasurface for Enhanced Wireless MIMO Systems. , 2020, , .		0
27	Design and Implementation of a Full-Digital Beamforming Array With Nonreciprocal Tx/Rx Beam Patterns. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1978-1982.	4.0	19
28	Single-Beam 1 Bit Reflective Metasurface Using Prephased Unit Cells for Normally Incident Plane Waves. IEEE Transactions on Antennas and Propagation, 2020, 68, 5496-5504.	5.1	25
29	Measurement-Based 5G Millimeter-Wave Propagation Characterization in Vegetated Suburban Macrocell Environments. IEEE Transactions on Antennas and Propagation, 2020, 68, 5556-5567.	5.1	55
30	Calibration of Motional Frequency Spread for Wide-Band FMCW Automotive Millimeter-Wave Radar. IEEE Access, 2020, 8, 14355-14366.	4.2	5
31	Multistage Collaborative Machine Learning and its Application to Antenna Modeling and Optimization. IEEE Transactions on Antennas and Propagation, 2020, 68, 3397-3409.	5.1	80
32	Bidirectional ephrinB2â€EphB4 signaling regulates the osteogenic differentiation of canine periodontal ligament stem cells. International Journal of Molecular Medicine, 2020, 45, 897-909.	4.0	6
33	Reply to Comments on â€œBroadband Symmetrical E-Shaped Patch Antenna With Multimode Resonance for 5G Millimeter-Wave Applicationsâ€¢ IEEE Transactions on Antennas and Propagation, 2020, 68, 1220-1220.	5.1	0
34	Empirical Analysis of Millimeter-Wave Propagation in Indoor Transitional Environments. , 2020, , .		0
35	Variable-Fidelity Surrogate Model-Based Machine Learning-Assisted Optimization and Its Application to Worst-Case Performance Searching of Antennas. , 2020, , .		0
36	Performance Evaluation and Analysis of Millimeter Wave Communication System. IEEE Systems Journal, 2019, 13, 159-170.	4.6	16

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37	Millimeter-Wave Space-Time Propagation Characteristics in Urban Macrocell Scenarios. , 2019, , .		15
38	Broadband Endfire Magnetolectric Dipole Antenna Array Using SICL Feeding Network for 5G Millimeter-Wave Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 4895-4900.	5.1	45
39	Broadband Millimeter-Wave SIW Cavity-Backed Slot Antenna for 5G Applications Using Machine-Learning-Assisted Optimization Method. , 2019, , .		7
40	Measurement-Based Propagation Characteristics at 28 GHz and 39 GHz in Suburban Environment. , 2019, , .		2
41	Thermodynamic analyses of synthetic natural gas production via municipal solid waste gasification, high-temperature water electrolysis and methanation. Energy Conversion and Management, 2019, 202, 112160.	9.2	46
42	Self-Powered Inhomogeneous Strain Sensor Enabled Joint Motion and Three-Dimensional Muscle Sensing. ACS Applied Materials & Interfaces, 2019, 11, 34251-34257.	8.0	40
43	Electromagnetic Vector Antenna Array-Based Multi-Dimensional Parameter Estimation for Radio Propagation Measurement. IEEE Wireless Communications Letters, 2019, 8, 1608-1611.	5.0	4
44	Broadband Symmetrical E-Shaped Patch Antenna With Multimode Resonance for 5G Millimeter-Wave Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 4474-4483.	5.1	59
45	Efficient Delay and AoA Estimation Using Vector Antenna for Radio Propagation Measurements. , 2019, , .		3
46	Machine-Learning-Assisted Two-Step Antenna Modelling Method. , 2019, , .		3
47	Broadband Planar SIW Cavity-Backed Slot Antennas Aided by Unbalanced Shorting Vias. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 363-367.	4.0	51
48	Decreased 8-oxoguanine DNA glycosylase 1 (hOGG1) expression and DNA oxidation damage induced by Cr (VI). Chemico-Biological Interactions, 2019, 299, 44-51.	4.0	25
49	Millimeter-Wave Broadband Planar Cavity-Backed Antenna with Approximately Symmetrical Radiation Patterns. , 2018, , .		0
50	Millimeter-Wave Broadband Multi-Beam End-Fire Dual Circularly Polarized Antenna Array. , 2018, , .		1
51	Compact L/S-Band Circularly Polarized Microstrip Antenna over Reactive Impedance Surface. , 2018, , .		0
52	Wideband Millimeter-Wave End-Fire Magneto-Electric Dipole Antenna Fed by Substrate Integrated Coaxial Line. , 2018, , .		0
53	Indoor Small-Scale Spatiotemporal Propagation Characteristics at Multiple Millimeter-Wave Bands. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2250-2254.	4.0	33
54	An Overview of China Millimeter-Wave Multiple Gigabit Wireless Local Area Network System. IEICE Transactions on Communications, 2018, E101.B, 262-276.	0.7	8

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55	Millimeter-Wave Multibeam Endfire Dual-Circularly Polarized Antenna Array for 5G Wireless Applications. IEEE Transactions on Antennas and Propagation, 2018, 66, 4930-4935.	5.1	149
56	Compact broadband circularly polarized microstrip antenna over artificial ground structure. , 2018, , .		0
57	Millimeter-wave wideband circularly polarized antenna arrays using travelling-wave elements. , 2018, , .		3
58	Wideband Millimeter-Wave Microstrip Reflectarray Using Dual-Resonance Unit Cells. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 4-7.	4.0	37
59	An Operational Planning Framework for Large-Scale Thermostatically Controlled Load Dispatch. IEEE Transactions on Industrial Informatics, 2017, 13, 217-227.	11.3	66
60	Low-Sidelobe-Level Series-Fed Microstrip Antenna Array of Unequal Interelement Spacing. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1695-1698.	4.0	73
61	Wideband U-slot patch antenna with reconfigurable radiation pattern. , 2017, , .		3
62	Using Mercury Isotopes To Understand Mercury Accumulation in the Montane Forest Floor of the Eastern Tibetan Plateau. Environmental Science & Technology, 2017, 51, 801-809.	10.0	102
63	6â€“100 GHz research progress and challenges from a channel perspective for fifth generation (5G) and future wireless communication. Science China Information Sciences, 2017, 60, 1.	4.3	78
64	Millimeter-Wave Planar Broadband Circularly Polarized Antenna Array Using Stacked Curl Elements. IEEE Transactions on Antennas and Propagation, 2017, 65, 7052-7062.	5.1	82
65	Wideband channel fading characteristics in corridor environment at millimeter-wave bands. , 2017, , .		6
66	Effects of pulsed electromagnetic fields on postmenopausal osteoporosis. Bioelectromagnetics, 2017, 38, 406-424.	1.6	35
67	Low-Profile Millimeter-Wave SIW Cavity-Backed Dual-Band Circularly Polarized Antenna. IEEE Transactions on Antennas and Propagation, 2017, 65, 7310-7315.	5.1	78
68	Training sequence design for channel estimation and IQ imbalance compensation in GFDM systems. , 2017, , .		2
69	EuPathDB: the eukaryotic pathogen genomics database resource. Nucleic Acids Research, 2017, 45, D581-D591.	14.5	191
70	Joint user scheduling and hybrid precoding design for MIMO C-RAN. , 2017, , .		11
71	An improved three-dimensional auto-clustering algorithm for indoor millimeter-wave multipath propagation analysis. , 2017, , .		4
72	An improved CFAR algorithm for target detection. , 2017, , .		21

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73	Target detection based on a rotary table-mounted synthetic aperture radar system. , 2017, , .		1
74	System performance evaluation for millimeter wave wireless communication. , 2017, , .		1
75	Cluster-based analysis of wideband millimeter-wave channel for corridor environment. , 2017, , .		5
76	Low-Profile Circularly Polarized Cavity-Backed Antennas Using SIW Techniques. IEEE Transactions on Antennas and Propagation, 2016, 64, 2832-2839.	5.1	87
77	Effects of soil nutrients and climate factors on belowground biomass in an alpine meadow in the source region of the Yangtze-Yellow rivers, Tibetan Plateau of China. Journal of Arid Land, 2016, 8, 881-889.	2.3	15
78	Low profile circularly polarized SIW-like cavity-backed slot antennas. , 2016, , .		0
79	Optimization and efficient detection of primary synchronization signal for multi-beam satellite-LTE systems. International Journal of Satellite Communications and Networking, 2016, 34, 115-129.	1.8	0
80	High genetic diversity and frequent genetic reassortment of avian influenza A(H9N2) viruses along the East Asianâ€“Australian migratory flyway. Infection, Genetics and Evolution, 2016, 39, 325-329.	2.3	18
81	Joint timing synchronization and channel estimation based on ZCZ sequence set in SC-MIMO-FDE system. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, , .	2.4	5
82	Soil nitrogen and carbon determine the trade-off of the above- and below-ground biomass across alpine grasslands, Tibetan Plateau. Ecological Indicators, 2016, 60, 1070-1076.	6.3	76
83	Propagation Channel Comparison between 23.5 and 45â€“GHz in Conference Scenario. Chinese Journal of Engineering, 2016, 2016, 1-9.	1.0	8
84	Dual-band omnidirectional monopole/dielectric resonator antenna fed by SICL. , 2015, , .		0
85	28-GHz path-loss measurement and modeling in indoor environments. , 2015, , .		0
86	A synthesis method for substrate integrated coaxial line with different dielectric layers. , 2015, , .		1
87	Highly Pathogenic Avian Influenza A(H5N1) Virus Struck Migratory Birds in China in 2015. Scientific Reports, 2015, 5, 12986.	3.3	47
88	Joint estimation and compensation of frequency-selective I/Q imbalance using loop-back method in OFDM systems. , 2015, , .		0
89	Wideband microstrip reflectarray using dual-resonance unit cell. , 2015, , .		1
90	Approximate SICL synthesis method. , 2015, , .		6

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91	Dynamic Channel Modeling for an Indoor Scenario at 23.5 GHz. IEEE Access, 2015, 3, 2950-2958.	4.2	9
92	45GHz propagation channel modeling for an indoor conference scenario. , 2015, , .		1
93	Phase noise mitigation for millimeter-wave SC-FDE MIMO systems. , 2015, , .		1
94	Dual-band SICL branch-line coupler. Microwave and Optical Technology Letters, 2015, 57, 1246-1249.	1.4	1
95	Energy efficient coordinated precoding design for a multicell system with RF energy harvesting. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	16
96	L/S-Band Dual-Circularly Polarized Antenna Fed by 3-dB Coupler. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 426-429.	4.0	32
97	Large-Scale Fading Characteristics of Indoor Channel at 45-GHz Band. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 735-738.	4.0	36
98	Capacity Maximization for Short-Range Millimeter-Wave Line-of-Sight TIMO Channels. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1085-1094.	0.3	0
99	Coordinated Multicell Precoding for Weighted Sum Rate Maximization with Per-Cell EE Constraints. , 2014, , .		0
100	Energy-efficient coordinated precoding for multicell system with transceiver impairments. , 2014, , .		0
101	Dual-band circularly polarized antenna fed by SICL coupler. , 2014, , .		1
102	Performance analysis of symbol interleaving for next generation mm-Wave MIMO WLAN. , 2014, , .		0
103	Duality Based Energy-Efficient Beamforming Design for Multiuser Downlink Systems. IEEE Wireless Communications Letters, 2014, 3, 409-412.	5.0	2
104	Leakage-Aware Energy-Efficient Beamforming for Heterogeneous Multicell Multiuser Systems. IEEE Journal on Selected Areas in Communications, 2014, 32, 1268-1281.	14.0	62
105	Ultrasmall Graphene Oxide Supported Gold Nanoparticles as Adjuvants Improve Humoral and Cellular Immunity in Mice. Advanced Functional Materials, 2014, 24, 6963-6971.	14.9	58
106	Multicell coordinated beamforming for WSRM with imperfect CSI at both transceiver sides. , 2014, , .		1
107	A new PSS design and identification for global coverage multi-beam S-LTE using generalized Zadoff-Chu sequences. , 2013, , .		0
108	Non-conservative robust joint transmission beamforming for multicell multiuser systems. , 2013, , .		0

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109	EuPathDB: The Eukaryotic Pathogen database. Nucleic Acids Research, 2013, 41, D684-D691.	14.5	83
110	Recent advances in Q-LINKPAN/IEEE 802.11aj (45GHz) millimeter wave communication technologies. , 2013, , .		14
111	CMOS ICs for the proposed Chinese millimeter wave communication standard Q-LINKPAN/IEEE802.11aj(45GHz). , 2012, , .		6
112	Coordinated multi-cell beamforming scheme using uplink-downlink max-min SINR duality. , 2012, , .		2
113	New Construction Method and Low-Complexity Correlator for Binary Periodic Complementary Sequence Sets and Its Application to MIMO Channel Estimation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 1095-1098.	0.3	1
114	Efficient generator and correlator for MOPCSSs and their application to MIMO channel estimation. IEICE Communications Express, 2012, 1, 16-22.	0.4	1
115	Research advances in microwave and millimeter wave circuits and systems in the SKLMMW. , 2012, , .		2
116	Investigations on wideband MIMO indoor channel characteristics at 2.35GHz with multiple polarized antennas. , 2012, , .		1
117	Capacity optimization for short-range LoS 3D MIMO channels. , 2012, , .		0
118	Ku-Band Linearly Polarized Omnidirectional Planar Filtenna. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 310-313.	4.0	91
119	Spectral efficiency analysis of mobile Femtocell based cellular systems. , 2011, , .		42
120	Performance analysis of two-way relaying satellite mobile communication. , 2011, , .		1
121	Improved Channel Estimator for MIMO-SCBT Systems Using Quadriphase Complementary Sequences. IEICE Transactions on Communications, 2011, E94-B, 342-345.	0.7	1
122	A Multibeam Antenna Based on Substrate Integrated Waveguide Technology for MIMO Wireless Communications. IEEE Transactions on Antennas and Propagation, 2009, 57, 1813-1821.	5.1	128