

# Houjun Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/925180/publications.pdf>

Version: 2024-02-01

93  
papers

1,287  
citations

430442

18  
h-index

414034

32  
g-index

94  
all docs

94  
docs citations

94  
times ranked

859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of hybrid higher-order skin-topological effect in non-Hermitian topoelectrical circuits. Nature Communications, 2021, 12, 7201.	5.8	144
2	Experimental Observation of Higher-Order Topological Anderson Insulators. Physical Review Letters, 2021, 126, 146802.	2.9	105
3	Topoelectrical circuit octupole insulator with topologically protected corner states. Physical Review B, 2019, 100, .	1.1	104
4	Additive manufacturing of carbon nanotube-photopolymer composite radar absorbing materials. Polymer Composites, 2018, 39, E671.	2.3	51
5	Topoelectrical-circuit realization of a four-dimensional hexadecapole insulator. Physical Review B, 2020, 102, .	1.1	47
6	A Small-Size Dual-Feed Broadband Circularly Polarized U-Slot Patch Antenna. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 898-901.	2.4	44
7	Design and Implementation of a Wideband 1-Bit Transmitarray Based on a Yagi-Vivaldi Unit Cell. IEEE Transactions on Antennas and Propagation, 2021, 69, 4229-4234.	3.1	44
8	Observation of novel topological states in hyperbolic lattices. Nature Communications, 2022, 13, .	5.8	36
9	Compressive Sensing Imaging of 3-D Object by a Holographic Algorithm. IEEE Transactions on Antennas and Propagation, 2018, 66, 7295-7304.	3.1	35
10	Near-Field Radar Imaging via Compressive Sensing. IEEE Transactions on Antennas and Propagation, 2015, 63, 828-833.	3.1	31
11	A Planar Balanced Power Divider With Tunable Power-Dividing Ratio. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4871-4882.	2.9	31
12	Analysis of a Novel Singlet and Its Application in THz Bandpass Filter Design. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 312-320.	2.0	31
13	Design of a $\pi$ -Band GaAs-Based SIW Chip Filter Using Higher Order Mode Resonances. IEEE Microwave and Wireless Components Letters, 2019, 29, 104-106.	2.0	29
14	A W-Band High-Aperture-Efficiency Multipolarized Monopulse Cassegrain Antenna Fed by Phased Microstrip Patch Quad. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1609-1613.	2.4	27
15	Two-Dimensional NUFFT-Based Algorithm for Fast Near-Field Imaging. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 814-817.	2.4	26
16	Cylindrical MIMO Array-Based Near-Field Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2021, 69, 612-617.	3.1	25
17	A Miniaturized Dual-Band SIW Filtering Antenna With Improved Out-of-Band Suppression. IEEE Transactions on Antennas and Propagation, 2022, 70, 126-134.	3.1	21
18	NUFFT-Based Near-Field Imaging Technique for Far-Field Radar Cross Section Calculation. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 550-553.	2.4	20

#	ARTICLE	IF	CITATIONS
19	1-Bit Wideband Reconfigurable Reflectarray Design in Ku-Band. IEEE Access, 2022, 10, 4340-4348.	2.6	19
20	Electric-Circuit Realization of Fast Quantum Search. Research, 2021, 2021, 9793071.	2.8	18
21	Recent Developments and Challenges on Beam Steering Characteristics of Reconfigurable Transmitarray Antennas. Electronics (Switzerland), 2022, 11, 587.	1.8	17
22	Observation of Bloch oscillations dominated by effective anyonic particle statistics. Nature Communications, 2022, 13, 2392.	5.8	17
23	Observation of non-Hermitian aggregation effects induced by strong interactions. Physical Review B, 2022, 105, .	1.1	17
24	Broadband Three-Stage Pseudoload Modulated Balanced Amplifier With Power Back-Off Efficiency Enhancement. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2710-2722.	2.9	16
25	A Compact Single-Feed Circularly Polarized Microstrip Antenna with Symmetric and Wide-Beamwidth Radiation Pattern. International Journal of Antennas and Propagation, 2013, 2013, 1-7.	0.7	14
26	High Gain Rectangular Slot Microstrip Patch Antenna for 5G mm-Wave Wireless Communication. , 2020, , .		13
27	Enhanced Millimeter-Wave 3-D Imaging via Complex-Valued Fully Convolutional Neural Network. Electronics (Switzerland), 2022, 11, 147.	1.8	13
28	Ultra-Wideband Dielectric Resonator Antenna Design Based on Multilayer Form. International Journal of Antennas and Propagation, 2019, 2019, 1-10.	0.7	12
29	Amplitude Angle Monopulse Estimation for the Four-Channel Hybrid Polarimetric Radar System. IEEE Antennas and Wireless Propagation Letters, 2017, , 1-1.	2.4	11
30	2-D Coherence Factor for Sidelobe and GhostSuppressions in Radar Imaging. IEEE Transactions on Antennas and Propagation, 2020, 68, 1204-1209.	3.1	11
31	High-Gain Low Cross-Polarized Dual-Polarized Filtering Patch Antenna Without Extra Circuits. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1368-1372.	2.4	11
32	Fast and Efficient Analysis of Radome-Enclosed Antennas in Receiving Mode by an Iterative-Based Hybrid Integral Equation/Modified Surface Integration Method. IEEE Transactions on Antennas and Propagation, 2017, 65, 2436-2445.	3.1	10
33	On the Use of Continuity Condition in the Fast Solution of Volume-Surface Integral Equation. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 625-628.	2.4	10
34	Radar Imaging by Sparse Optimization Incorporating MRF Clustering Prior. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1139-1143.	1.4	10
35	Triangular Slot-Loaded Wideband Planar Rectangular Antenna Array for Millimeter-Wave 5G Applications. Electronics (Switzerland), 2021, 10, 778.	1.8	10
36	Moiré circuits: Engineering magic-angle behavior. Physical Review B, 2021, 104, .	1.1	10

#	ARTICLE	IF	CITATIONS
37	Cylindrical Three-Dimensional Millimeter-Wave Imaging via Compressive Sensing. International Journal of Antennas and Propagation, 2015, 2015, 1-6.	0.7	9
38	A W-band auto-focus holographic imaging system for security screening. IEICE Electronics Express, 2017, 14, 20170347-20170347.	0.3	9
39	Integer Linear Programming Roundoff Method for Arbitrary Planar Phased-Array Scanning. IEEE Transactions on Antennas and Propagation, 2019, 67, 3040-3047.	3.1	9
40	Design of a Dual-Polarization Single-Ridged Waveguide Slot Array With Enhanced Bandwidth. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 138-142.	2.4	9
41	Planar Reconfigurable Balanced Rat-Race Coupler With Improved Amplitude Imbalance Performance and Common-Mode Noise Absorption. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4276-4289.	2.9	9
42	Wide-Angle Scanning Phased Array Antennas Using Metasurface Slabs. IEEE Transactions on Antennas and Propagation, 2021, 69, 9003-9008.	3.1	9
43	A Broadband E-Band Single-Layer-SIW-to-Waveguide Transition for Automotive Radar. IEEE Microwave and Wireless Components Letters, 2022, 32, 523-526.	2.0	9
44	Latest Performance Improvement Strategies and Techniques Used in 5G Antenna Designing Technology, a Comprehensive Study. Micromachines, 2022, 13, 717.	1.4	9
45	A Precise Real-Time Delay Calibration Method for Navigation Satellite Transceiver. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2578-2586.	2.4	8
46	Design of a Novel Passive Wireless Integrated SAW-Based Antenna Sensor for Structural Health Monitoring. Journal of Sensors, 2020, 2020, 1-9.	0.6	7
47	Wiring Effects Mitigation for Through-Wall Human Motion Micro-Doppler Signatures Using a Generative Adversarial Network. IEEE Sensors Journal, 2021, 21, 10007-10016.	2.4	7
48	An Ultra-Wideband Compact TR Module Based on 3-D Packaging. Electronics (Switzerland), 2021, 10, 1435.	1.8	7
49	A Wide-Band High-Efficiency Hybrid-Feed Antenna Array for mm-Wave Wireless Systems. Electronics (Switzerland), 2021, 10, 2383.	1.8	7
50	Observation of interaction-induced phenomena of relativistic quantum mechanics. Communications Physics, 2021, 4, .	2.0	7
51	Design and Implementation of a W-band 16-16-Slot Array Antenna with Low Sidelobe Level. IEEE Antennas and Wireless Propagation Letters, 2024, , 1-1.	2.4	6
52	Experimental observation of classical analogy of topological entanglement entropy. Nature Communications, 2019, 10, 1557.	5.8	6
53	Quantum-inspired microwave signal processing for implementing unitary transforms. Optics Express, 2019, 27, 436.	1.7	6
54	Low Profile, Compact Size Frequency Reconfigurable Antenna for 5G mm-Wave Wireless Communication. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
55	Near-Field Single-Frequency Millimeter-Wave 3-D Imaging via Multifocus Image Fusion. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 298-302.	2.4	5
56	Creation of electrical knots and observation of DNA topology. New Journal of Physics, 2021, 23, 093045.	1.2	5
57	Design of an X/Ka dual-band co-aperture broadband microstrip antenna array. , 2011, , .		4
58	A 5.8 GHz CMOS low noise amplifier for electronic toll collection system. , 2012, , .		4
59	A wideband siw-to-waveguide transition at w-band. , 2017, , .		4
60	Design of a broadband wide-angle circularly polarized microstrip patch antenna with small phase deviation. , 2008, , .		3
61	The NUFFT-based algorithm for 3-D near-field ISAR imaging. , 2011, , .		3
62	Design of a W-band Low Noise Amplifier Module with MMIC. , 2012, , .		3
63	Fast Sidelobe Calculation and Suppression in Arbitrary Two-Dimensional Phased Arrays. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 928-932.	2.4	3
64	Improved Algorithm X for Subarray Partition With Acceleration and Sidelobe Suppression. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1403-1407.	2.4	3
65	A high-performance stepped frequency synthesizer for synthetic aperture radar. , 2012, , .		2
66	A novel planer transition structure from micro-strip line to waveguide. , 2014, , .		2
67	Linear Programming Phase Feeding Method for Phased-Array Scanning. IEICE Transactions on Electronics, 2016, E99.C, 892-894.	0.3	2
68	Multi-section auto-focus millimeter-wave holography. , 2016, , .		2
69	Multichannel Phase Calibration for Linear Array Based on Extended $\Omega$ Algorithm and Minimum-Entropy Method. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1827-1831.	2.4	2
70	An Impedance-Loaded Orthogonal Frequency-Coded SAW Sensor for Passive Wireless Sensor Networks. Sensors, 2020, 20, 1876.	2.1	2
71	Aperture Phase GA Optimization for Reflectarray Antennas with Feed Lateral Displacement. , 2021, , .		2
72	1 BIT Wide-Band Hexagonal Electronically Reconfigurable Unit Cell for Ka-Band Transmit-array. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
73	Design of A Ka-Band 3D-Printed Dual-Polarization Magnetolectric Dipole Antenna Array with Low Sidelobe. Electronics (Switzerland), 2021, 10, 2969.	1.8	2
74	Calibration method of amplitude and phase consistency of digital variable polarization radar receiving system. , 2011, , .		1
75	A 8-output compact broadband Wilkinson power divider in LTCC technology. , 2013, , .		1
76	Fast Alignment Algorithm for Autocalibration in Digital Monopulse Radars. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1513-1517.	2.4	1
77	Radar backscattering modelling and micro-motion parameter estimation method for quadcopter. IET Radar, Sonar and Navigation, 0, , .	0.9	1
78	A low cost phase adjustment network for MMW mix-integrated active antenna. , 2009, , .		0
79	Dual-polarized multi-layer microstrip array antenna with H-shaped coupling slot. , 2012, , .		0
80	A high performance 0.18 &#x03BC;m CMOS downconversion active mixer. , 2012, , .		0
81	Calibration method of amplitude and phase consistency of W-band transceiver components. , 2014, , .		0
82	Built-in-self-test 3-D ring oscillator for stacked 3DIC. , 2014, , .		0
83	Compressive RCS Measurements. Circuits, Systems, and Signal Processing, 2015, 34, 1379-1389.	1.2	0
84	Obtaining source current density related to irregularly structured electromagnetic target field inside human body using hybrid inverse/FDTD method. Electromagnetic Biology and Medicine, 2017, 36, 169-176.	0.7	0
85	A microstrip-fed &lt;i>W</i>-band waveguide filter using H-shaped coupling slots. IEICE Electronics Express, 2017, 14, 20170326-20170326.	0.3	0
86	Polynomial-time solution for the #P problem based on classical electronic circuits. , 2019, , .		0
87	2-D Coherence Factor Enhancement of Radar Images. , 2019, , .		0
88	Human Activity Classification Method Using a Generalized Recurrent Neural Network. , 2019, , .		0
89	Digital beam forming methods for variable polarimetric monopulse radar. IET Radar, Sonar and Navigation, 2021, 15, 1368.	0.9	0
90	A 340GHz Cross-coupled Waveguide Filter Based on MEMS Process. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
91	A Hybrid Antenna with Equal Beamwidth in Two Frequency Bands for Radar Applications. Electronics (Switzerland), 2021, 10, 3000.	1.8	0
92	Comparison of TAs with Different Feed Tracks. , 2021, , .		0
93	Forward-Looking Imaging Based on the Linear Wavefront of the Modulated Field. Electronics (Switzerland), 2022, 11, 2083.	1.8	0