

Houjun Sun

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.

69

papers

449

citations

12

h-index

17

g-index

94

ext. papers

836

ext. citations

4

avg, IF

4.21

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 69 | Enhanced Millimeter-Wave 3-D Imaging via Complex-Valued Fully Convolutional Neural Network. <i>Electronics (Switzerland)</i> , 2022 , 11, 147 | 2.6 | 4 |
| 68 | A Broadband E-Band Single-Layer-SIW-to-Waveguide Transition for Automotive Radar. <i>IEEE Microwave and Wireless Components Letters</i> , 2022 , 1-4 | 2.6 | 2 |
| 67 | Recent Developments and Challenges on Beam Steering Characteristics of Reconfigurable Transmitarray Antennas. <i>Electronics (Switzerland)</i> , 2022 , 11, 587 | 2.6 | 4 |
| 66 | High-Gain Low Cross-Polarized Dual-Polarized Filtering Patch Antenna Without Extra Circuits. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022 , 1-1 | 3.8 | 1 |
| 65 | Broadband Three-Stage Pseudoload Modulated Balanced Amplifier With Power Back-Off Efficiency Enhancement. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1 | 4.1 | 2 |
| 64 | Improved Algorithm X for Subarray Partition with Acceleration and Sidelobe Suppression. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022 , 1-1 | 3.8 | 1 |
| 63 | Latest Performance Improvement Strategies and Techniques Used in 5G Antenna Designing Technology, a Comprehensive Study. <i>Micromachines</i> , 2022 , 13, 717 | 3.3 | 1 |
| 62 | Observation of Bloch oscillations dominated by effective anyonic particle statistics.. <i>Nature Communications</i> , 2022 , 13, 2392 | 17.4 | 1 |
| 61 | Design of A Ka-Band 3D-Printed Dual-Polarization Magnetolectric Dipole Antenna Array with Low Sidelobe. <i>Electronics (Switzerland)</i> , 2021 , 10, 2969 | 2.6 | 1 |
| 60 | A Hybrid Antenna with Equal Beamwidth in Two Frequency Bands for Radar Applications. <i>Electronics (Switzerland)</i> , 2021 , 10, 3000 | 2.6 | |
| 59 | 1-Bit Wideband Reconfigurable Reflectarray Design in Ku-Band. <i>IEEE Access</i> , 2021 , 1-1 | 3.5 | 5 |
| 58 | Near-Field Single-Frequency Millimeter-Wave 3-D Imaging via Multifocus Image Fusion. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 298-302 | 3.8 | 3 |
| 57 | Triangular Slot-Loaded Wideband Planar Rectangular Antenna Array for Millimeter-Wave 5G Applications. <i>Electronics (Switzerland)</i> , 2021 , 10, 778 | 2.6 | 3 |
| 56 | Experimental Observation of Higher-Order Topological Anderson Insulators. <i>Physical Review Letters</i> , 2021 , 126, 146802 | 7.4 | 21 |
| 55 | Wiring Effects Mitigation for Through-Wall Human Motion Micro-Doppler Signatures Using a Generative Adversarial Network. <i>IEEE Sensors Journal</i> , 2021 , 21, 10007-10016 | 4 | 2 |
| 54 | Digital beam forming methods for variable polarimetric monopulse radar. <i>IET Radar, Sonar and Navigation</i> , 2021 , 15, 1368 | 1.4 | |
| 53 | An Ultra-Wideband Compact TR Module Based on 3-D Packaging. <i>Electronics (Switzerland)</i> , 2021 , 10, 1435 | 2.6 | 1 |

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|----|---|------|----|
| 52 | Cylindrical MIMO Array-Based Near-Field Microwave Imaging. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 612-617 | 4.9 | 12 |
| 51 | Fast Sidelobe Calculation and Suppression in Arbitrary Two-Dimensional Phased Arrays. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 1-1 | 3.8 | 0 |
| 50 | Design and Implementation of a Wideband 1-Bit Transmitarray Based on a Yagi-Uda Unit Cell. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 4229-4234 | 4.9 | 13 |
| 49 | Electric-Circuit Realization of Fast Quantum Search. <i>Research</i> , 2021 , 2021, 9793071 | 7.8 | 4 |
| 48 | Fast Alignment Algorithm for Autocalibration in Digital Monopulse Radars. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 1513-1517 | 3.8 | 0 |
| 47 | Creation of electrical knots and observation of DNA topology. <i>New Journal of Physics</i> , 2021 , 23, 093045 | 2.9 | 2 |
| 46 | A Wide-Band High-Efficiency Hybrid-Feed Antenna Array for mm-Wave Wireless Systems. <i>Electronics (Switzerland)</i> , 2021 , 10, 2383 | 2.6 | 4 |
| 45 | Wide-Angle Scanning Phased Array Antennas Using Metasurface Slabs. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1 | 4.9 | 1 |
| 44 | A Miniaturized Dual-band SIW Filtering Antenna With Improved Out-of-band Suppression. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1 | 4.9 | 5 |
| 43 | Observation of hybrid higher-order skin-topological effect in non-Hermitian topoelectrical circuits. <i>Nature Communications</i> , 2021 , 12, 7201 | 17.4 | 9 |
| 42 | High Gain Rectangular Slot Microstrip Patch Antenna for 5G mm-Wave Wireless Communication 2020 , | | 2 |
| 41 | Radar Imaging by Sparse Optimization Incorporating MRF Clustering Prior. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 17, 1139-1143 | 4.1 | 5 |
| 40 | Low Profile, Compact Size Frequency Reconfigurable Antenna for 5G mm-Wave Wireless Communication 2020 , | | 2 |
| 39 | Design of a Novel Passive Wireless Integrated SAW-Based Antenna Sensor for Structural Health Monitoring. <i>Journal of Sensors</i> , 2020 , 2020, 1-9 | 2 | 2 |
| 38 | An Impedance-Loaded Orthogonal Frequency-Coded SAW Sensor for Passive Wireless Sensor Networks. <i>Sensors</i> , 2020 , 20, | 3.8 | 1 |
| 37 | 2-D Coherence Factor for Sidelobe and GhostSuppressions in Radar Imaging. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1204-1209 | 4.9 | 6 |
| 36 | Planar Reconfigurable Balanced Rat-Race Coupler With Improved Amplitude Imbalance Performance and Common-Mode Noise Absorption. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 4276-4289 | 4.1 | 5 |
| 35 | Topoelectrical-circuit realization of a four-dimensional hexadecapole insulator. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 14 |

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|----|--|------|----|
| 34 | Design of a \sqrt{W} -Band GaAs-Based SIW Chip Filter Using Higher Order Mode Resonances. <i>IEEE Microwave and Wireless Components Letters</i> , 2019 , 29, 104-106 | 2.6 | 14 |
| 33 | Ultra-Wideband Dielectric Resonator Antenna Design Based on Multilayer Form. <i>International Journal of Antennas and Propagation</i> , 2019 , 2019, 1-10 | 1.2 | 2 |
| 32 | Design and Implementation of a W-band 16-Element Slot Array Antenna with Low Sidelobe Level. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 1-1 | 3.8 | 2 |
| 31 | Experimental observation of classical analogy of topological entanglement entropy. <i>Nature Communications</i> , 2019 , 10, 1557 | 17.4 | 3 |
| 30 | Integer Linear Programming Roundoff Method for Arbitrary Planar Phased-Array Scanning. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 3040-3047 | 4.9 | 2 |
| 29 | Quantum-inspired microwave signal processing for implementing unitary transforms. <i>Optics Express</i> , 2019 , 27, 436-460 | 3.3 | 5 |
| 28 | Topoelectrical circuit octupole insulator with topologically protected corner states. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 48 |
| 27 | . <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 138-142 | 3.8 | 3 |
| 26 | Analysis of a Novel Singlet and Its Application in THz Bandpass Filter Design. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2018 , 8, 312-320 | 3.4 | 18 |
| 25 | Additive manufacturing of carbon nanotube-photopolymer composite radar absorbing materials. <i>Polymer Composites</i> , 2018 , 39, E671-E676 | 3 | 35 |
| 24 | Multichannel Phase Calibration for Linear Array Based on Extended ω K Algorithm and Minimum-Entropy Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1827-1831 | 3.8 | 2 |
| 23 | Compressive Sensing Imaging of 3-D Object by a Holographic Algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 7295-7304 | 4.9 | 20 |
| 22 | A W-Band High-Aperture-Efficiency Multipolarized Monopulse Cassegrain Antenna Fed by Phased Microstrip Patch Quad. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 1609-1613 | 3.8 | 15 |
| 21 | Fast and Efficient Analysis of Radome-Enclosed Antennas in Receiving Mode by an Iterative-Based Hybrid Integral Equation/Modified Surface Integration Method. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2436-2445 | 4.9 | 2 |
| 20 | On the Use of Continuity Condition in the Fast Solution of Volume-Surface Integral Equation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 625-628 | 3.8 | 6 |
| 19 | A microstrip-fed W-band waveguide filter using H-shaped coupling slots. <i>IEICE Electronics Express</i> , 2017 , 14, 20170326-20170326 | 0.5 | |
| 18 | A W-band auto-focus holographic imaging system for security screening. <i>IEICE Electronics Express</i> , 2017 , 14, 20170347-20170347 | 0.5 | 6 |
| 17 | A Planar Balanced Power Divider With Tunable Power-Dividing Ratio. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 4871-4882 | 4.1 | 24 |

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|----|---|-----|----|
| 16 | Obtaining source current density related to irregularly structured electromagnetic target field inside human body using hybrid inverse/FDTD method. <i>Electromagnetic Biology and Medicine</i> , 2017 , 36, 169-176 | 2.2 | |
| 15 | Amplitude Angle Monopulse Estimation for the Four-Channel Hybrid Polarimetric Radar System. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 1-1 | 3.8 | 6 |
| 14 | A wideband siw-to-waveguide transition at w-band 2017 , | | 2 |
| 13 | Multi-section auto-focus millimeter-wave holography 2016 , | | 2 |
| 12 | Linear Programming Phase Feeding Method for Phased-Array Scanning. <i>IEICE Transactions on Electronics</i> , 2016 , E99.C, 892-894 | 0.4 | 1 |
| 11 | A Precise Real-Time Delay Calibration Method for Navigation Satellite Transceiver. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 2578-2586 | 5.2 | 8 |
| 10 | Compressive RCS Measurements. <i>Circuits, Systems, and Signal Processing</i> , 2015 , 34, 1379-1389 | 2.2 | |
| 9 | Near-Field Radar Imaging via Compressive Sensing. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 828-833 | 4.9 | 15 |
| 8 | Cylindrical Three-Dimensional Millimeter-Wave Imaging via Compressive Sensing. <i>International Journal of Antennas and Propagation</i> , 2015 , 2015, 1-6 | 1.2 | 6 |
| 7 | A Small-Size Dual-Feed Broadband Circularly Polarized U-Slot Patch Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 898-901 | 3.8 | 18 |
| 6 | A Compact Single-Feed Circularly Polarized Microstrip Antenna with Symmetric and Wide-Beamwidth Radiation Pattern. <i>International Journal of Antennas and Propagation</i> , 2013 , 2013, 1-7 | 1.2 | 11 |
| 5 | Design of a W-band Low Noise Amplifier Module with MMIC 2012 , | | 1 |
| 4 | A high-performance stepped frequency synthesizer for synthetic aperture radar 2012 , | | 2 |
| 3 | Design of an X/Ka dual-band co-aperture broadband microstrip antenna array 2011 , | | 2 |
| 2 | Two-Dimensional NUFFT-Based Algorithm for Fast Near-Field Imaging. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 814-817 | 3.8 | 12 |
| 1 | NUFFT-Based Near-Field Imaging Technique for Far-Field Radar Cross Section Calculation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 550-553 | 3.8 | 12 |