

Yuan Huang

List of Publications by Citations

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79
papers

919
citations

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27
g-index

128
ext. papers

1,279
ext. citations

3.3
avg, IF

4.42
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 79 | A Novel Simple and Compact Microstrip-Fed Circularly Polarized Wide Slot Antenna With Wide Axial Ratio Bandwidth for C-Band Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 1552-1555 | 4.9 | 81 |
| 78 | Bandwidth Enhancement of a Planar Printed Quasi-Yagi Antenna With Size Reduction. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 463-467 | 4.9 | 72 |
| 77 | A Printed Unidirectional Antenna With Improved Upper Band-Edge Selectivity Using a Parasitic Loop. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 1832-1837 | 4.9 | 69 |
| 76 | A Printed UWB Vivaldi Antenna Using Stepped Connection Structure Between Slotline and Tapered Patches. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 698-701 | 3.8 | 57 |
| 75 | Fast Pencil Beam Pattern Synthesis of Large Unequally Spaced Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 627-634 | 4.9 | 43 |
| 74 | A Broadband Unidirectional Antenna Based on Closely Spaced Loading Method. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 109-116 | 4.9 | 40 |
| 73 | Design of a Wideband Planar Printed Quasi-Yagi Antenna Using Stepped Connection Structure. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 3431-3435 | 4.9 | 39 |
| 72 | Small planar monopole ultra-wideband antenna with reduced ground plane effect. <i>IET Microwaves, Antennas and Propagation</i> , 2015 , 9, 1028-1034 | 1.6 | 35 |
| 71 | Compact Multimode Monopole Antenna for Metal-Rimmed Mobile Phones. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2297-2304 | 4.9 | 31 |
| 70 | Human Activity Classification With Radar: Optimization and Noise Robustness With Iterative Convolutional Neural Networks Followed With Random Forests. <i>IEEE Sensors Journal</i> , 2018 , 18, 9669-9681 | 4.1 | 31 |
| 69 | Power Gain Optimization Method for Wide-Beam Array Antenna via Convex Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 1620-1629 | 4.9 | 22 |
| 68 | Grid Evolution Method for DOA Estimation. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 2374-2383 | 4.8 | 21 |
| 67 | A Novel Miniature Band-Notched Wing-Shaped Monopole Ultrawideband Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 1614-1617 | 3.8 | 20 |
| 66 | GO/PO and PTD With Virtual Divergence Factor for Fast Analysis of Scattering From Concave Complex Targets. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 2170-2179 | 4.9 | 19 |
| 65 | A Wideband Electromagnetic Scattering Analysis Using MLFMA With Higher Order Hierarchical Vector Basis Functions. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 3169-3178 | 4.9 | 19 |
| 64 | A Compact Unidirectional Ultra-Wideband Circularly Polarized Antenna Based on Crossed Tapered Slot Radiation Elements. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 7353-7358 | 4.9 | 16 |
| 63 | A Single-Layer SIW Slots Array Monopulse Antenna Excited by a Dual-Mode Resonator. <i>IEEE Access</i> , 2019 , 7, 131282-131288 | 3.5 | 14 |

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|----|--|-----|----|
| 62 | Volume Integral Equation With Higher Order Hierarchical Basis Functions for Analysis of Dielectric Electromagnetic Scattering. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 4964-4975 | 4.9 | 14 |
| 61 | Mitigating acoustic heterogeneous effects in microwave-induced breast thermoacoustic tomography using multi-physical K-means clustering. <i>Applied Physics Letters</i> , 2017 , 111, 223701 | 3.4 | 14 |
| 60 | A Low-Profile and Stacked Patch Antenna for Pattern-Reconfigurable Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 4830-4835 | 4.9 | 13 |
| 59 | Synthesis of Conformal Phased Arrays With Embedded Element Pattern Decomposition. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 2882-2888 | 4.9 | 13 |
| 58 | Block based compressive sensing method of microwave induced thermoacoustic tomography for breast tumor detection. <i>Journal of Applied Physics</i> , 2017 , 122, 024702 | 2.5 | 11 |
| 57 | Resolving Manifold Ambiguities for Sparse Array Using Planar Substrates. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 2558-2562 | 4.9 | 11 |
| 56 | A Conformal Metamaterial-Based Optically Transparent Microwave Absorber With High Angular Stability. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 1399-1403 | 3.8 | 11 |
| 55 | Reducing the effects of acoustic heterogeneity with an iterative reconstruction method from experimental data in microwave induced thermoacoustic tomography. <i>Medical Physics</i> , 2015 , 42, 2103-2114 | 4.4 | 10 |
| 54 | A Frequency-Hopping Subspace-Based Optimization Method for Reconstruction of 2-D Large Uniaxial Anisotropic Scatterers With TE Illumination. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 6091-6099 | 8.1 | 10 |
| 53 | Unidirectional planar monopole ultra-wideband antenna using wrench-shaped feeding structure. <i>Electronics Letters</i> , 2014 , 50, 654-655 | 1.1 | 10 |
| 52 | Electromagnetic Modeling of Breaking Waves at Low Grazing Angles With Adaptive Higher Order Hierarchical Legendre Basis Functions. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 346-352 | 8.1 | 9 |
| 51 | Synthesis of sparse planar arrays with matrix pencil method 2011 , | | 9 |
| 50 | An Improved Two-Scale Model for Electromagnetic Backscattering From Sea Surface. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 17, 953-957 | 4.1 | 9 |
| 49 | Planar quasi-Yagi antenna with band rejection based on dual dipole structure for UWB. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 1708-1714 | 1.6 | 9 |
| 48 | A directional circularly polarized crossed-dipole antenna with bandwidth enhancement. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 2161-2167 | 1.2 | 8 |
| 47 | Numerical analysis of dielectric lens antennas using a ray-tracing method and HFSS software. <i>IEEE Antennas and Propagation Magazine</i> , 2008 , 50, 94-101 | 1.7 | 8 |
| 46 | Low Cross-Polarization SIW Slots Array Antenna With a Compact Feeding Network. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 189-193 | 3.8 | 7 |
| 45 | A novel vivaldi antenna with extended ground plane stubs for ultrawideband applications. <i>Microwave and Optical Technology Letters</i> , 2015 , 57, 983-987 | 1.2 | 6 |

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|----|--|-----|---|
| 44 | Full-polarisation three-dimensional pattern synthesis for conformal conical arrays with dynamic range ratio constraint by using the initialisations based on equivalence theorem. <i>IET Microwaves, Antennas and Propagation</i> , 2015 , 9, 1659-1666 | 1.6 | 6 |
| 43 | Wideband Quad-Polarization Reconfigurable Antenna Using Switchable Feed Network With Stable Unidirectional Radiation Patterns. <i>IEEE Access</i> , 2018 , 6, 73434-73443 | 3.5 | 6 |
| 42 | Microwave induced thermoacoustic tomography based on probabilistic reconstruction. <i>Applied Physics Letters</i> , 2018 , 112, 263701 | 3.4 | 6 |
| 41 | Electromagnetic Inverse Scattering Series Method for Positioning Three-Dimensional Targets in Near-Surface Two-Layer Medium With Unknown Dielectric Properties. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 299-303 | 4.1 | 5 |
| 40 | Broadband unidirectional printed antenna with quad-folded dipoles for circular polarization. <i>Microwave and Optical Technology Letters</i> , 2015 , 57, 2871-2876 | 1.2 | 5 |
| 39 | Resolving manifold ambiguities for direction-of-arrival estimation of sparse array using semi-circular substrates. <i>IET Microwaves, Antennas and Propagation</i> , 2013 , 7, 1016-1020 | 1.6 | 5 |
| 38 | Enhanced directivity and bandwidth of a stepped open-slot antenna with L-shaped slots and parasitic strip. <i>IET Microwaves, Antennas and Propagation</i> , 2014 , 8, 465-473 | 1.6 | 4 |
| 37 | A Diagonal Subspace-Based Optimization Method for Reconstruction of 2-D Isotropic and Uniaxial Anisotropic Dielectric Objects. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017 , 14, 1318-1322 | 4.1 | 4 |
| 36 | Fast Fourier Transform Multilevel Fast Multipole Algorithm in Rough Ocean Surface Scattering. <i>Electromagnetics</i> , 2009 , 29, 541-552 | 0.8 | 4 |
| 35 | Active Learning Applied to RCS Computations With Nonuniform Sampling Using Different Objective Functions. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 1214-1217 | 4.9 | 4 |
| 34 | Fast Point-Based KD-Tree Construction Method for Hybrid High Frequency Method in Electromagnetic Scattering. <i>IEEE Access</i> , 2018 , 6, 38348-38355 | 3.5 | 4 |
| 33 | A broadband dual-polarized printed dipole antenna with low cross-polarization and high isolation for base station applications. <i>Microwave and Optical Technology Letters</i> , 2017 , 59, 1107-1111 | 1.2 | 3 |
| 32 | Approach on Joint Inversion of Electromagnetic and Acoustic Data Based on Structural Constraints. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 7672-7681 | 8.1 | 3 |
| 31 | A Novel Adaptive Joint Time Frequency Algorithm by the Neural Network for the ISAR Rotational Compensation. <i>Remote Sensing</i> , 2018 , 10, 334 | 5 | 3 |
| 30 | The Filter Diagonalization Method in Antenna Array Optimization for Pattern Synthesis. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 6123-6130 | 4.9 | 3 |
| 29 | Printed double-dipole antenna with high directivity using a new feeding structure. <i>IET Microwaves, Antennas and Propagation</i> , 2014 , 8, 1186-1191 | 1.6 | 3 |
| 28 | Robust adaptive beamforming with low sidelobe levels 2013 , | | 3 |
| 27 | Improvement of SIW filter upper stopband performance using bypass coupling substrate integrated circular cavity (SICC). <i>IEICE Electronics Express</i> , 2011 , 8, 1294-1301 | 0.5 | 3 |

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| 26 | Application of time reversal mirror technique in microwave-induced thermo-acoustic tomography system. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 2087-2095 | | 3 |
| 25 | A Hierarchical Subspace-Based Optimization Method for Reconstruction of 2-D Uniaxial Anisotropic Scatterers Using Multi-Frequency Data. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4 | 2 | 3 |
| 24 | Cloud removal for optical images using SAR structure data 2016 , | | 3 |
| 23 | Persymmetric Adaptive Detection With Reduced-Dimension Approach. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 565-569 | 3.2 | 2 |
| 22 | Design of Anti-Phase Feeding Network for W8JK Array Based on In-Phase Power Divider. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 2870-2873 | 4.9 | 2 |
| 21 | Resolving ambiguities in DOA estimation by optimizing the element orientations 2013 , | | 2 |
| 20 | Design of k-band oversized floded half mode substrate integrated waveguide (OFHMSIW) filter with high selectivity 2011 , | | 2 |
| 19 | Volume Equivalent SBR Method for Electromagnetic Scattering of Dielectric and Composite Objects. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 2842-2852 | 4.9 | 2 |
| 18 | Meta-surface loading broadband and high-aperture efficiency dual circularly polarized patch antenna. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021 , 31, e22525 | 1.5 | 2 |
| 17 | Investigation of the regularization parameter of subspace-based optimization method for reconstruction of uniaxial anisotropic objects 2016 , | | 1 |
| 16 | A diagonalized improved subspace-based optimization method for solving 2-D inverse scattering problems. <i>Microwave and Optical Technology Letters</i> , 2017 , 59, 2089-2095 | 1.2 | 1 |
| 15 | Trajectory optimisation method by using independent component analysis for MIMO-OTHR target tracking. <i>Electronics Letters</i> , 2015 , 51, 1020-1021 | 1.1 | 1 |
| 14 | A novel adaptive sampling method for interpolation/extrapolation in time and frequency domains. <i>Journal of Electromagnetic Waves and Applications</i> , 2014 , 28, 1167-1174 | 1.3 | 1 |
| 13 | Polarization optimization in clutter background via target scattering estimation 2013 , | | 1 |
| 12 | Electromagnetic inverse scattering series (ISS) method for sensing 2-D objects buried in layered media with unknown dielectric properties 2013 , | | 1 |
| 11 | Development of microwave-induced thermo-acoustic tomography prototype system. <i>Science Bulletin</i> , 2009 , 54, 4446-4450 | 10.6 | 1 |
| 10 | Analyses of the performance of adaptive subspace detector on fluctuating target detection in system-dependent clutter background. <i>IET Radar, Sonar and Navigation</i> , 2016 , 10, 1635-1642 | 1.4 | 1 |
| 9 | Embedded Design of Compact Broadband Omnidirectional Antenna With Quad-Polarization Diversity. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 18-22 | 3.8 | 1 |

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| 8 | A Single-Layer Circularly Polarized Antenna With Improved Gain Based on Quarter-Mode Substrate Integrated Waveguide Cavities Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 2388-2392 | 3.8 | o |
| 7 | Exact Evaluation of Retarded-Time Potential Integrals on Curvilinear Quadrilateral Patches. <i>Electromagnetics</i> , 2013 , 33, 311-318 | 0.8 | |
| 6 | Enhancing the Convergence Speed of Space Mapping Technique in Cylinder Conformal Antennas Optimization. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009 , 31, 162 | 2.2 | |
| 5 | A Novel Half Mode Elliptic SIW (HMESIW) Filter with Bypass Coupling Substrate Integrated Circular Cavity (BCSICC). <i>IEICE Transactions on Electronics</i> , 2012 , E95-C, 408-411 | 0.4 | |
| 4 | ANALYSIS OF BLOCK-SOR ITERATION FOR THE THREE-DIMENSIONAL LAPLACIAN. <i>ANZIAM Journal</i> , 2009 , 50, 501-512 | 0.5 | |
| 3 | A New Scheme for Solving Highly Nonlinear Inverse Scattering Problems With Noise Disturbance. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-1 | 4.1 | |
| 2 | An autofocus method to reduce acoustic inhomogeneity in microwave-induced thermo-acoustic tomography based on basis pursuit. <i>Applied Physics Letters</i> , 2021 , 119, 023702 | 3.4 | |
| 1 | Facet-Based Hybrid Method for Electromagnetic Scattering from Shallow Water Waves Modulated by Submarine Topography. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1 | 8.1 | |