

Yuan Huang

List of Publications by Year in descending order

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128
papers

1,518
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331259

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docs citations

128
times ranked

1293
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Simple and Compact Microstrip-Fed Circularly Polarized Wide Slot Antenna With Wide Axial Ratio Bandwidth for C-Band Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 1552-1555.	3.1	137
2	Bandwidth Enhancement of a Planar Printed Quasi-Yagi Antenna With Size Reduction. IEEE Transactions on Antennas and Propagation, 2014, 62, 463-467.	3.1	102
3	A Printed Unidirectional Antenna With Improved Upper Band-Edge Selectivity Using a Parasitic Loop. IEEE Transactions on Antennas and Propagation, 2015, 63, 1832-1837.	3.1	96
4	A Printed UWB Vivaldi Antenna Using Stepped Connection Structure Between Slotline and Tapered Patches. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 698-701.	2.4	85
5	Fast Pencil Beam Pattern Synthesis of Large Unequally Spaced Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2013, 61, 627-634.	3.1	60
6	Design of a Wideband Planar Printed Quasi-Yagi Antenna Using Stepped Connection Structure. IEEE Transactions on Antennas and Propagation, 2014, 62, 3431-3435.	3.1	60
7	Human Activity Classification With Radar: Optimization and Noise Robustness With Iterative Convolutional Neural Networks Followed With Random Forests. IEEE Sensors Journal, 2018, 18, 9669-9681.	2.4	59
8	A Broadband Unidirectional Antenna Based on Closely Spaced Loading Method. IEEE Transactions on Antennas and Propagation, 2013, 61, 109-116.	3.1	52
9	Compact Multimode Monopole Antenna for Metal-Rimmed Mobile Phones. IEEE Transactions on Antennas and Propagation, 2017, 65, 2297-2304.	3.1	43
10	Small planar monopole ultra-wideband antenna with reduced ground plane effect. IET Microwaves, Antennas and Propagation, 2015, 9, 1028-1034.	0.7	41
11	Power Gain Optimization Method for Wide-Beam Array Antenna via Convex Optimization. IEEE Transactions on Antennas and Propagation, 2019, 67, 1620-1629.	3.1	39
12	A Conformal Metamaterial-Based Optically Transparent Microwave Absorber With High Angular Stability. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1399-1403.	2.4	39
13	Grid Evolution Method for DOA Estimation. IEEE Transactions on Signal Processing, 2018, 66, 2374-2383.	3.2	38
14	GO/PO and PTD With Virtual Divergence Factor for Fast Analysis of Scattering From Concave Complex Targets. IEEE Transactions on Antennas and Propagation, 2015, 63, 2170-2179.	3.1	36
15	A Novel Miniature Band-Notched Wing-Shaped Monopole Ultrawideband Antenna. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1614-1617.	2.4	30
16	A Single-Layer SIW Slots Array Monopulse Antenna Excited by a Dual-Mode Resonator. IEEE Access, 2019, 7, 131282-131288.	2.6	29
17	A Low-Profile and Stacked Patch Antenna for Pattern-Reconfigurable Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 4830-4835.	3.1	28
18	Numerical analysis of dielectric lens antennas using a ray-tracing method and HFSS software. IEEE Antennas and Propagation Magazine, 2008, 50, 94-101.	1.2	24

#	ARTICLE	IF	CITATIONS
19	A Compact Unidirectional Ultra-Wideband Circularly Polarized Antenna Based on Crossed Tapered Slot Radiation Elements. IEEE Transactions on Antennas and Propagation, 2018, 66, 7353-7358.	3.1	24
20	Low Cross-Polarization SIW Slots Array Antenna With a Compact Feeding Network. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 189-193.	2.4	22
21	A Wideband Electromagnetic Scattering Analysis Using MLFMA With Higher Order Hierarchical Vector Basis Functions. IEEE Transactions on Antennas and Propagation, 2009, 57, 3169-3178.	3.1	21
22	Mitigating acoustic heterogeneous effects in microwave-induced breast thermoacoustic tomography using multi-physical K-means clustering. Applied Physics Letters, 2017, 111, 223701.	1.5	21
23	Synthesis of Conformal Phased Arrays With Embedded Element Pattern Decomposition. IEEE Transactions on Antennas and Propagation, 2011, 59, 2882-2888.	3.1	20
24	Volume Integral Equation With Higher Order Hierarchical Basis Functions for Analysis of Dielectric Electromagnetic Scattering. IEEE Transactions on Antennas and Propagation, 2015, 63, 4964-4975.	3.1	19
25	Resolving Manifold Ambiguities for Sparse Array Using Planar Substrates. IEEE Transactions on Antennas and Propagation, 2012, 60, 2558-2562.	3.1	18
26	Electromagnetic Modeling of Breaking Waves at Low Grazing Angles With Adaptive Higher Order Hierarchical Legendre Basis Functions. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 346-352.	2.7	16
27	Unidirectional planar monopole ultra-wideband antenna using wrench-shaped feeding structure. Electronics Letters, 2014, 50, 654-655.	0.5	16
28	Planar quasi-Yagi antenna with band rejection based on dual dipole structure for UWB. IET Microwaves, Antennas and Propagation, 2016, 10, 1708-1714.	0.7	16
29	Approach on Joint Inversion of Electromagnetic and Acoustic Data Based on Structural Constraints. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7672-7681.	2.7	16
30	Block based compressive sensing method of microwave induced thermoacoustic tomography for breast tumor detection. Journal of Applied Physics, 2017, 122, .	1.1	15
31	Synthesis of sparse planar arrays with matrix pencil method. , 2011, , .		14
32	Reducing the effects of acoustic heterogeneity with an iterative reconstruction method from experimental data in microwave induced thermoacoustic tomography. Medical Physics, 2015, 42, 2103-2112.	1.6	14
33	A Frequency-Hopping Subspace-Based Optimization Method for Reconstruction of 2-D Large Uniaxial Anisotropic Scatterers With TE Illumination. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6091-6099.	2.7	14
34	Wideband Quad-Polarization Reconfigurable Antenna Using Switchable Feed Network With Stable Unidirectional Radiation Patterns. IEEE Access, 2018, 6, 73434-73443.	2.6	14
35	An Improved Two-Scale Model for Electromagnetic Backscattering From Sea Surface. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 953-957.	1.4	14
36	Microwave induced thermoacoustic tomography based on probabilistic reconstruction. Applied Physics Letters, 2018, 112, .	1.5	13

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37	A directional circularly polarized crossed-dipole antenna with bandwidth enhancement. Microwave and Optical Technology Letters, 2018, 60, 2161-2167.	0.9	12
38	A novel vivaldi antenna with extended ground plane stubs for ultrawideband applications. Microwave and Optical Technology Letters, 2015, 57, 983-987.	0.9	11
39	Fast Point-Based KD-Tree Construction Method for Hybrid High Frequency Method in Electromagnetic Scattering. IEEE Access, 2018, 6, 38348-38355.	2.6	9
40	Full-polarisation three-dimensional pattern synthesis for conformal conical arrays with dynamic range ratio constraint by using the initialisations based on equivalence theorem. IET Microwaves, Antennas and Propagation, 2015, 9, 1659-1666.	0.7	8
41	Cloud removal for optical images using SAR structure data. , 2016, , .		8
42	A Diagonal Subspace-Based Optimization Method for Reconstruction of 2-D Isotropic and Uniaxial Anisotropic Dielectric Objects. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1318-1322.	1.4	8
43	Application of time reversal mirror technique in microwave-induced thermo-acoustic tomography system. Science in China Series D: Earth Sciences, 2009, 52, 2087-2095.	0.9	7
44	Resolving manifold ambiguities for direction-of-arrival estimation of sparse array using semi-circular substrates. IET Microwaves, Antennas and Propagation, 2013, 7, 1016-1020.	0.7	7
45	Enhanced directivity and bandwidth of a stepped open-slot antenna with L-shaped slots and parasitic strip. IET Microwaves, Antennas and Propagation, 2014, 8, 465-473.	0.7	7
46	Volume Equivalent SBR Method for Electromagnetic Scattering of Dielectric and Composite Objects. IEEE Transactions on Antennas and Propagation, 2021, 69, 2842-2852.	3.1	7
47	A Hierarchical Subspace-Based Optimization Method for Reconstruction of 2-D Uniaxial Anisotropic Scatterers Using Multi-Frequency Data. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	7
48	A Single-Layer Circularly Polarized Antenna With Improved Gain Based on Quarter-Mode Substrate Integrated Waveguide Cavities Array. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2388-2392.	2.4	7
49	Fast Fourier Transform Multilevel Fast Multipole Algorithm in Rough Ocean Surface Scattering. Electromagnetics, 2009, 29, 541-552.	0.3	6
50	Robust adaptive beamforming with low sidelobe levels. , 2013, , .		6
51	Broadband unidirectional printed antenna with quad-folded dipoles for circular polarization. Microwave and Optical Technology Letters, 2015, 57, 2871-2876.	0.9	6
52	Electromagnetic Inverse Scattering Series Method for Positioning Three-Dimensional Targets in Near-Surface Two-Layer Medium With Unknown Dielectric Properties. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 299-303.	1.4	6
53	Printed double-dipole antenna with high directivity using a new feeding structure. IET Microwaves, Antennas and Propagation, 2014, 8, 1186-1191.	0.7	5
54	Design of Anti-Phase Feeding Network for W8JK Array Based on In-Phase Power Divider. IEEE Transactions on Antennas and Propagation, 2014, 62, 2870-2873.	3.1	5

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55	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.	0.9	5
56	A Novel Adaptive Joint Time Frequency Algorithm by the Neural Network for the ISAR Rotational Compensation. <i>Remote Sensing</i> , 2018, 10, 334.	1.8	5
57	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.	3.1	4
58	Design of k-band oversized floded half mode substrate integrated waveguide (OFHMSIW) filter with high selectivity. , 2011, , .		4
59	Resolving ambiguities in DOA estimation by optimizing the element orientations. , 2013, , .		4
60	A new sandwich linear polarization and frequency selective surface design. , 2014, , .		4
61	The Filter Diagonalization Method in Antenna Array Optimization for Pattern Synthesis. <i>IEEE Transactions on Antennas and Propagation</i> , 2014, 62, 6123-6130.	3.1	4
62	Embedded Design of Compact Broadband Omnidirectional Antenna With Quad-Polarization Diversity. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 18-22.	2.4	4
63	Development of microwave-induced thermo-acoustic tomography prototype system. <i>Science Bulletin</i> , 2009, 54, 4446-4450.	4.3	3
64	Improvement of SIW filter upper stopband performance using bypass coupling substrate integrated circular cavity (SICC). <i>IEICE Electronics Express</i> , 2011, 8, 1294-1301.	0.3	3
65	An Improved Facet-Based Two-scale model for Electromagnetic Scattering from Sea Surface and SAR Imaging. , 2019, , .		3
66	Thermo-acoustic imaging for different breast tissues in microwave induced thermo-acoustic tomography system. , 2013, , .		2
67	Electromagnetic inverse scattering series (ISS) method for sensing 2-D objects buried in layered media with unknown dielectric properties. , 2013, , .		2
68	Antenna Array Beam Pattern Synthesis Based on Trust Region Method. , 2014, , .		2
69	Trajectory optimisation method by using independent component analysis for MIMO-OTHR target tracking. <i>Electronics Letters</i> , 2015, 51, 1020-1021.	0.5	2
70	Investigation of the regularization parameter of subspace-based optimization method for reconstruction of uniaxial anisotropic objects. , 2016, , .		2
71	Analysis of Experimental Data of IPIX Radar. , 2018, , .		2
72	Persymmetric Adaptive Detection With Reduced-Dimension Approach. <i>IEEE Signal Processing Letters</i> , 2020, 27, 565-569.	2.1	2

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73	Meta-surface loading broadband and high-aperture efficiency dual circularly polarized patch antenna. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22525.	0.8	2
74	Facet-Based Hybrid Method for Electromagnetic Scattering From Shallow Water Waves Modulated by Submarine Topography. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	2
75	Estimation of threshold noise suppression algorithm in microwave induced thermoacoustic tomography. , 2009, , .		1
76	A cascaded correction method to reduce the contamination of ionospheric frequency modulation for HF skywave radars. , 2009, , .		1
77	Application of AdaBoost in polarimetric SAR image classification. , 2009, , .		1
78	The KA-MLFMA hybrid algorithm for analyzing the electromagnetic scattering from a 3-D target over random rough surface. , 2010, , .		1
79	Millimeter wave beam tilting array for radar system. , 2010, , .		1
80	Solving ambiguity for sparse array via particle swarm optimization. , 2011, , .		1
81	Exact Evaluation of Retarded-Time Potential Integrals on Curvilinear Quadrilateral Patches. Electromagnetics, 2013, 33, 311-318.	0.3	1
82	Polarization optimization in clutter background via target scattering estimation. , 2013, , .		1
83	A novel adaptive sampling method for interpolation/extrapolation in time and frequency domains. Journal of Electromagnetic Waves and Applications, 2014, 28, 1167-1174.	1.0	1
84	An integrated simulation approach for contrast-enhanced microwave induced thermo-acoustic tomography. , 2014, , .		1
85	A new time-of-flight (TOF) picker for tumor tissue in microwave induced thermo-acoustic tomography (MITAT) system. , 2014, , .		1
86	A diagonalized improved subspace-based optimization method for solving 2D inverse scattering problems. Microwave and Optical Technology Letters, 2017, 59, 2089-2095.	0.9	1
87	Closely spaced multi-band MIMO antenna for mobile terminals. , 2017, , .		1
88	A CSEB subspace-based optimization method for reconstruction of uniaxial anisotropic objects. , 2017, , .		1
89	Two-Dimensional DOA Estimation Based on Separable Observation Model Utilizing Weighted L1-Norm Penalty and Bayesian Compressive Sensing Strategy. , 2017, , .		1
90	Improved Reconstruction Method Based on k-Means by Finding Peak Density Automatically in Microwave Induced Thermoacoustic Tomography. , 2019, , .		1

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91	A Modified a Priori SNR Estimation for Spectral Subtraction Speech Enhancement. , 2021, , .		1
92	Analyses of the performance of adaptive subspace detector on fluctuating target detection in systemâ€dependent clutter background. IET Radar, Sonar and Navigation, 2016, 10, 1635-1642.	0.9	1
93	Codesign of a Broadband Doherty Power Amplifier with Microstrip Bandpass Filters. , 2020, , .		1
94	A New Scheme for Solving Highly Nonlinear Inverse Scattering Problems With Noise Disturbance. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
95	The application of time reversal mirror based on pseudo-spectrum time domain for microwave-induced thermo-acoustic tomography. , 2008, , .		0
96	Enhancing the Convergence Speed of Space Mapping Technique in Cylinder Conformal Antennas Optimization. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 162.	1.2	0
97	ANALYSIS OF BLOCK-SOR ITERATION FOR THE THREE-DIMENSIONAL LAPLACIAN. ANZIAM Journal, 2009, 50, 501-512.	0.3	0
98	Three-Dimensional Image Reconstruction in Microwave Induced Thermo-Acoustic Tomography Using Time Reversal Mirror Technique. , 2010, , .		0
99	Ionospheric phase contamination correction method using Generalized S-Transform. , 2010, , .		0
100	A Novel Half Mode Elliptic SIW (HMESIW) Filter with Bypass Coupling Substrate Integrated Circular Cavity (BCSICC). IEICE Transactions on Electronics, 2012, E95-C, 408-411.	0.3	0
101	Application of TRM in detection of metal buried in wall. , 2012, , .		0
102	The influence of mesh fineness on virtual divergence factor for high frequency methods in electromagnetic scattering. , 2013, , .		0
103	A scaled experimental system for Underwater Seismic Imaging and exploration. , 2013, , .		0
104	Fast optimization method for polarization receiving based on space mapping theory. , 2013, , .		0
105	Design of a low profile printed dipole antenna with bandwidth enhancement. , 2013, , .		0
106	Analyses of electromagnetic scattering from a three-dimensional target partially buried in a two-dimensional rough surface. , 2013, , .		0
107	A comparison of three imaging algorithms on reconstructing tumor target in acoustic heterogeneous tissue with realistic numerical breast phantoms in microwave induced thermo-acoustic tomography. , 2014, , .		0
108	An adaptive subspace detector for target in target-induced clutter plus Gaussian noise background. , 2014, , .		0

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109	Effects of frequency information to the electromagnetic inverse scattering series method (EISSM). , 2014, , .		0
110	2D-DOA estimation of MIMO-OTHR based on multi-layer ionospheric model. , 2016, , .		0
111	Robust Compressed Sensing recovery for detecting two-dimensional scatters. , 2016, , .		0
112	An iterative reconstructed method for CNTs-enhanced breast tumor detection in microwave induced thermo-acoustic tomography. , 2016, , .		0
113	A feature directly extracted from Intrinsic Mode Functions. , 2017, , .		0
114	Improved compressive sensing of microwave induced thermo-acoustic tomography for breast tumor detection. , 2017, , .		0
115	Optimized ADE-FDTD method in unmagnetized plasma. , 2017, , .		0
116	Decoupled Dual-band Slot Antenna with Bidirectional Patterns for WLAN Applications. , 2018, , .		0
117	A Diagonalized CSEB Subspace-Based Optimization Method for Reconstruction of 2-D Uniaxial Anisotropic Dielectric Objects. , 2018, , .		0
118	Comparison of the Performance of Two Diagonal Approximations in the Framework of SOM. , 2018, , .		0
119	Novel Unconditionally Stable ADI-FDTD Method with Low Numerical Dispersion. , 2018, , .		0
120	Reducing the Effects of Inhomogeneous Density with a Clustering Method in Microwave Induced Thermo-Acoustic Tomography. , 2018, , .		0
121	Adaptive GLRT-, Rao- and Wald-Based CFAR Detectors for Distributed Targets. , 2019, , .		0
122	VESBR for the Electromagnetic Scattering of Multilayered Dielectric Objects. , 2021, , .		0
123	Joint Inversion of Electromagnetic and Acoustic Data with Spatial-Constrained by FCM. , 2021, , .		0
124	An autofocus method to reduce acoustic inhomogeneity in microwave-induced thermo-acoustic tomography based on basis pursuit. Applied Physics Letters, 2021, 119, 023702.	1.5	0
125	Ultra-wideband high precision positioning system based on SDS-TWR algorithm. , 2021, , .		0
126	Wireless Synchronized UWB TDoA Positioning System based on IEEE 802.15.4z. , 2021, , .		0

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127	Low-Profile Unidirectional Broadband Circularly Polarized Antenna With Metasurface Loaded. , 2021, , .		0
128	A Hybrid Structural Constraint Approach for Enhancing Electromagnetic Inversion through Acoustic Inversion. , 2021, , .		0