

Yuan Huang

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.

79
papers

919
citations

16
h-index

27
g-index

128
ext. papers

1,279
ext. citations

3.3
avg, IF

4.42
L-index

#	Paper	IF	Citations
79	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	
78	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	
77	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
76	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
75	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
74	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
73	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
72	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	
71	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
70	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
69	Persymmetric Adaptive Detection With Reduced-Dimension Approach. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 565-569	3.2	2
68	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	0
67	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
66	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
65	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
64	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
63	Grid Evolution Method for DOA Estimation. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 2374-2383	4.8	21

62	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
61	A directional circularly polarized crossed-dipole antenna with bandwidth enhancement. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 2161-2167	1.2	8
60	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
59	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
58	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
57	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	3 ¹
56	Microwave induced thermoacoustic tomography based on probabilistic reconstruction. <i>Applied Physics Letters</i> , 2018 , 112, 263701	3.4	6
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	1.2	3
54	Compact Multimode Monopole Antenna for Metal-Rimmed Mobile Phones. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2297-2304	4.9	3 ¹
53	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
52	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
51	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
50	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
49	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
48	Investigation of the regularization parameter of subspace-based optimization method for reconstruction of uniaxial anisotropic objects 2016 ,		1
47	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	8 ¹
46	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
45	Cloud removal for optical images using SAR structure data 2016 ,		3

44	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
43	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
42	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
41	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
40	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, 2103-12	4.4	10
39	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
38	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
37	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
36	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
35	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
34	Trajectory optimisation method by using independent component analysis for MIMO-OTHR target tracking. <i>Electronics Letters</i> , 2015 , 51, 1020-1021	1.1	1
33	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
32	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
31	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
30	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
29	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
28	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
27	Unidirectional planar monopole ultra-wideband antenna using wrench-shaped feeding structure. <i>Electronics Letters</i> , 2014 , 50, 654-655	1.1	10

26	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
25	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
24	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
23	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
22	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
21	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
20	Exact Evaluation of Retarded-Time Potential Integrals on Curvilinear Quadrilateral Patches. <i>Electromagnetics</i> , 2013 , 33, 311-318	0.8	
19	Polarization optimization in clutter background via target scattering estimation 2013 ,		1
18	Robust adaptive beamforming with low sidelobe levels 2013 ,		3
17	Electromagnetic inverse scattering series (ISS) method for sensing 2-D objects buried in layered media with unknown dielectric properties 2013 ,		1
16	Resolving ambiguities in DOA estimation by optimizing the element orientations 2013 ,		2
15	Resolving Manifold Ambiguities for Sparse Array Using Planar Substrates. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 2558-2562	4.9	11
14	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	
13	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
12	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
11	Synthesis of sparse planar arrays with matrix pencil method 2011 ,		9
10	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
9	Design of k-band oversized floded half mode substrate integrated waveguide (OFHMSIW) filter with high selectivity 2011 ,		2

8	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	
7	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
6	Development of microwave-induced thermo-acoustic tomography prototype system. <i>Science Bulletin</i> , 2009 , 54, 4446-4450	10.6	1
5	Fast Fourier Transform Multilevel Fast Multipole Algorithm in Rough Ocean Surface Scattering. <i>Electromagnetics</i> , 2009 , 29, 541-552	0.8	4
4	ANALYSIS OF BLOCK-SOR ITERATION FOR THE THREE-DIMENSIONAL LAPLACIAN. <i>ANZIAM Journal</i> , 2009 , 50, 501-512	0.5	
3	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
2	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
1	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