

Zhiqin Zhao

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.

103
papers

729
citations

14
h-index

21
g-index

137
ext. papers

1,082
ext. citations

3.3
avg, IF

4.54
L-index

#	Paper	IF	Citations
103	Higher-Order Characteristic Modes-Based Broad-beam Dielectric Resonator Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022 , 1-1	3.8	1
102	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	
101	Low-Profile High-Aperture-Efficiency Air-Filled Substrate Integrated Cavity Antenna Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022 , 1-1	3.8	0
100	Efficient Secure Communication in 4-D Antenna Arrays through Joint Space-Time Modulation. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	
99	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	
98	Wideband Endfire Dielectric Resonator Antenna Employing Fundamental and Higher Order Magnetolectric Resonances. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 1-1	3.8	1
97	Simulation framework for activity recognition and benchmarking in different radar geometries. <i>IET Radar, Sonar and Navigation</i> , 2021 , 15, 390-401	1.4	3
96	A circularly polarized microstrip patch antenna with enhanced bandwidth based on substrate integrated waveguide techniques. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021 , 31, e22669	1.5	1
95	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
94	Dual-polarized beam-switching Yagi-Uda patch antenna with large tilted angle. <i>Microwave and Optical Technology Letters</i> , 2021 , 63, 1445-1451	1.2	
93	High Isolation and Low Cross-Polarization of Low-Profile Dual-Polarized Antennas via Metasurface Mode Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 2999-3004	4.9	10
92	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
91	Design of Single-Layer Broadband Omnidirectional Metasurface Antenna Under Single Mode Resonance. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	5
90	Wideband SIW Half-Mode/Quarter-Mode-Fed Microstrip Patch Complementary Antennas With Back Radiation Suppression. <i>IEEE Access</i> , 2021 , 9, 48963-48970	3.5	2
89	Unidirectional Dielectric Resonator Antennas Employing Electric and Magnetic Dipole Moments. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	3
88	Full Equiphase Characteristic Mode Solution to Lossless Composite Metallic-Dielectric Problems. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	4
87	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

86	A Novel Capacitive Cross-Coupling Structure for Ceramic-Filled Cavity Filters. <i>IEEE Access</i> , 2021 , 9, 272013-27209	3.5	2
85	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
84	Accurate Sub-Structure Characteristic Mode Analysis of Dielectric Resonator Antennas With Finite Ground Plan. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	6
83	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
82	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	
81	Design of wideband end-fire composite microstrip-monopole antenna. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021 , 31, e22837	1.5	0
80	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
79	Design of Composite Microstrip-Monopole Antenna With 180° Beamwidth Based on Complementary Sources Concept. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 1577-1581	3.8	
78	Substrate-Integrated-Waveguide-Based Complementary Source Array With Enhanced Beamwidth. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5136-5141	4.9	4
77	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
76	Persymmetric Adaptive Detection With Reduced-Dimension Approach. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 565-569	3.2	2
75	Improved HMSIW Cavity-Cascaded Array With High Front-to-Back Ratio Based on Complementary Element. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 6821-6825	4.9	4
74	Wristwatch-Style Wearable Dielectric Resonator Antennas for Applications on Limbs. <i>IEEE Access</i> , 2020 , 8, 59837-59844	3.5	3
73	A Modified Model for Electromagnetic Scattering of Sea Surface Covered with Crest Foam and Static Foam. <i>Remote Sensing</i> , 2020 , 12, 788	5	3
72	Adaptive detection of distributed targets in noise and interference which is partially related with targets 2020 , 103, 102757		1
71	Design of High-Gain Circularly Polarized Antennas Based on Vehicle Application Environment. <i>IEEE Access</i> , 2020 , 8, 112735-112741	3.5	1
70	Alternative Surface Integral Equation-Based Characteristic Mode Formulations for Composite Metallic-Dielectric Objects. <i>IEEE Access</i> , 2020 , 8, 5201-5211	3.5	5
69	Unified Implementation and Cross-Validation of the Integral Equation-Based Formulations for the Characteristic Modes of Dielectric Bodies. <i>IEEE Access</i> , 2020 , 8, 5655-5666	3.5	7

68	Broadband Dual Circularly Polarized Dielectric Resonator Antenna for Ambient Electromagnetic Energy Harvesting. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 4961-4966	4.9	14
67	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
66	Compatible Integration of Circularly Polarized Omnidirectional Metasurface Antenna With Solar Cells. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 4155-4160	4.9	13
65	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
64	LPI Beamforming Based on 4-D Antenna Arrays With Pseudorandom Time Modulation. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 2068-2077	4.9	9
63	Reducing Acoustic Inhomogeneity Based on Speed of Sound Autofocus in Microwave Induced Thermoacoustic Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 2206-2214	5	9
62	Miniaturized Conformal Arc Dielectric Resonator Antennas Using Dielectric and Metallic Loading. <i>IEEE Access</i> , 2019 , 7, 139518-139525	3.5	2
61	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
60	Single-Source Surface Integral Equation Formulations for Characteristic Modes of Fully Dielectric-Coated Objects. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 4914-4919	4.9	11
59	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
58	Design and analysis of a compact omnidirectional UWB slot antenna. <i>Microwave and Optical Technology Letters</i> , 2019 , 61, 1917-1923	1.2	6
57	Estimation and Utilization of Ground Effects on Conformal Dielectric Resonator Antennas. <i>IEEE Access</i> , 2019 , 7, 162387-162394	3.5	5
56	Adaptive detection of point-like targets based on a reduced-dimensional data model. <i>Signal Processing</i> , 2019 , 158, 36-47	4.4	7
55	A Single-Layer Differential Substrate-Integrated Slot Antenna With Common-Mode Rejection. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 392-396	3.8	7
54	. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 140-150	4.9	11
53	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
52	. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 1335-1340	4.9	6
51	. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1064-1075	4.9	19

50	A Single-Layer Dual-Frequency Shared-Aperture SIW Slot Antenna Array With a Small Frequency Ratio. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1048-1051	3.8	18
49	Grid Evolution Method for DOA Estimation. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 2374-2383	4.8	21
48	CFAR subspace detectors with multiple observations in system-dependent clutter background. <i>Signal Processing</i> , 2018 , 153, 58-70	4.4	6
47	A directional circularly polarized crossed-dipole antenna with bandwidth enhancement. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 2161-2167	1.2	8
46	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
45	A wideband hybrid feeding circularly polarized magneto-electric dipole antenna for 5G Wi-Fi. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 1837-1842	1.2	7
44	A broadband and low cross polarization antenna with a balun of microstrip line coupling to slot line. <i>PLoS ONE</i> , 2018 , 13, e0194181	3.7	1
43	A Dual Circularly Polarized Rectenna with Wide-Beam 2018 ,		1
42	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
41	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
40	Microwave induced thermoacoustic tomography based on probabilistic reconstruction. <i>Applied Physics Letters</i> , 2018 , 112, 263701	3.4	6
39	A novel teaching platform design with CAI for EM education. <i>Computer Applications in Engineering Education</i> , 2018 , 26, 1318-1323	1.6	1
38	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 3018-3031	3.7	2
37	A Novel Electromagnetic Power-Based Characteristic Mode for Magnetodielectric Materials. <i>Radio Science</i> , 2018 , 53, 458-471	1.4	2
36	Compact planar quasi-Yagi antenna with band-notched characteristic for WLAN and DSRC for ultra-wideband applications. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 1239-1245	1.6	8
35	Compact Multimode Monopole Antenna for Metal-Rimmed Mobile Phones. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2297-2304	4.9	31
34	Multipole Modes Excitation of uncoupled dark Plasmons Resonators based on Frequency Selective Surface at X-band Frequency Regime. <i>Scientific Reports</i> , 2017 , 7, 9492	4.9	3
33	A Compact Single-Layer Substrate-Integrated Waveguide (SIW) Monopulse Slot Antenna Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 2755-2758	3.8	16

32	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
31	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
30	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	
29	A New Variable Step-Size Affine Projection Sign Algorithm Based on A Posteriori Estimation Error Analysis. <i>Circuits, Systems, and Signal Processing</i> , 2017 , 36, 1989-2011	2.2	5
28	A New Data-Reusing Algorithm Based on Minimum Norm and Minimum Disturbance Principles. <i>Circuits, Systems, and Signal Processing</i> , 2017 , 36, 1948-1969	2.2	
27	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
26	Bandwidth enhancement of wide-slot antenna array for UWB applications 2017 ,		1
25	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
24	Investigation of dual-band omnidirectional rectangular dielectric resonator antenna. <i>Journal of Electromagnetic Waves and Applications</i> , 2016 , 30, 1407-1416	1.3	1
23	Investigation of the regularization parameter of subspace-based optimization method for reconstruction of uniaxial anisotropic objects 2016 ,		1
22	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
21	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
20	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
19	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
18	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, 2103-2112	4.4	10
17	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
16	Adaptive polarimetric detection method for target in partially homogeneous background. <i>Signal Processing</i> , 2015 , 106, 301-311	4.4	10
15	Design of beam-tilted array antenna for UWB location system 2015 ,		1

14	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
13	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
12	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
11	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
10	Unidirectional planar monopole ultra-wideband antenna using wrench-shaped feeding structure. <i>Electronics Letters</i> , 2014 , 50, 654-655	1.1	10
9	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
8	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
7	SYSTEM DEVELOPMENT OF MICROWAVE INDUCED THERMO-ACOUSTIC TOMOGRAPHY AND EXPERIMENTS ON BREAST TUMOR. <i>Progress in Electromagnetics Research</i> , 2013 , 134, 323-336	3.8	14
6	Method of solving ambiguity for sparse array via power estimation based on MUSIC algorithm. <i>Signal Processing</i> , 2012 , 92, 542-546	4.4	6
5	The new design of miniaturized dual-band 180° hybrid-ring coupler 2012 ,		1
4	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
3	Development of microwave-induced thermo-acoustic tomography prototype system. <i>Science Bulletin</i> , 2009 , 54, 4446-4450	10.6	1
2	ANALYSIS OF BLOCK-SOR ITERATION FOR THE THREE-DIMENSIONAL LAPLACIAN. <i>ANZIAM Journal</i> , 2009 , 50, 501-512	0.5	
1	The Design of an Omni-directional Broadband Planar Vehicle Antenna 2006 ,		1