Zhiqin Zhao

List of Publications by Year
in descending order

137	1,390	361045 20	433756 31
papers	citations	h-index	g-index

137	137	137	1137
all docs	docs citations	times ranked	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	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
3	Compact Multimode Monopole Antenna for Metal-Rimmed Mobile Phones. IEEE Transactions on Antennas and Propagation, 2017, 65, 2297-2304.	3.1	43
4	Small planar monopole ultraâ€wideband antenna with reduced ground plane effect. IET Microwaves, Antennas and Propagation, 2015, 9, 1028-1034.	0.7	41
5	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
6	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
7	Grid Evolution Method for DOA Estimation. IEEE Transactions on Signal Processing, 2018, 66, 2374-2383.	3.2	38
8	A Compact Single-Layer Substrate-Integrated Waveguide (SIW) Monopulse Slot Antenna Array. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2755-2758.	2.4	37
9	Bandwidth Enhancement of Low-Profile Microstrip Antenna for MIMO Applications. IEEE Transactions on Antennas and Propagation, 2018, 66, 1064-1075.	3.1	37
10	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
11	High Isolation and Low Cross-Polarization of Low-Profile Dual-Polarized Antennas via Metasurface Mode Optimization. IEEE Transactions on Antennas and Propagation, 2021, 69, 2999-3004.	3.1	33
12	A Single-Layer Dual-Frequency Shared-Aperture SIW Slot Antenna Array With a Small Frequency Ratio. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1048-1051.	2.4	30
13	A Single-Layer SIW Slots Array Monopulse Antenna Excited by a Dual-Mode Resonator. IEEE Access, 2019, 7, 131282-131288.	2.6	29
14	A Low-Profile and Stacked Patch Antenna for Pattern-Reconfigurable Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 4830-4835.	3.1	28
15	Broadband Dual Circularly Polarized Dielectric Resonator Antenna for Ambient Electromagnetic Energy Harvesting. IEEE Transactions on Antennas and Propagation, 2020, 68, 4961-4966.	3.1	28
16	Compatible Integration of Circularly Polarized Omnidirectional Metasurface Antenna With Solar Cells. IEEE Transactions on Antennas and Propagation, 2020, 68, 4155-4160.	3.1	27
17	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
18	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

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19	SYSTEM DEVELOPMENT OF MICROWAVE INDUCED THERMO-ACOUSTIC TOMOGRAPHY AND EXPERIMENTS ON BREAST TUMOR. Progress in Electromagnetics Research, 2013, 134, 323-336.	1.6	21
20	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
21	Compact UWB Slot Antenna Utilizing Traveling-Wave Mode Based on Slotline Transitions. IEEE Transactions on Antennas and Propagation, 2019, 67, 140-150.	3.1	21
22	Design of Single-Layer Broadband Omnidirectional Metasurface Antenna Under Single Mode Resonance. IEEE Transactions on Antennas and Propagation, 2021, 69, 6947-6952.	3.1	20
23	Accurate Sub-Structure Characteristic Mode Analysis of Dielectric Resonator Antennas With Finite Ground Plan. IEEE Transactions on Antennas and Propagation, 2021, 69, 6930-6935.	3.1	20
24	LPI Beamforming Based on 4-D Antenna Arrays With Pseudorandom Time Modulation. IEEE Transactions on Antennas and Propagation, 2020, 68, 2068-2077.	3.1	19
25	Unidirectional planar monopole ultraâ€wideband antenna using wrenchâ€shaped feeding structure. Electronics Letters, 2014, 50, 654-655.	0.5	16
26	Adaptive polarimetric detection method for target in partially homogeneous background. Signal Processing, 2015, 106, 301-311.	2.1	16
27	Planar quasiâ€Yagi antenna with band rejection based on dual dipole structure for UWB. IET Microwaves, Antennas and Propagation, 2016, 10, 1708-1714.	0.7	16
28	Single-Source Surface Integral Equation Formulations for Characteristic Modes of Fully Dielectric-Coated Objects. IEEE Transactions on Antennas and Propagation, 2019, 67, 4914-4919.	3.1	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	Reducing Acoustic Inhomogeneity Based on Speed of Sound Autofocus in Microwave Induced Thermoacoustic Tomography. IEEE Transactions on Biomedical Engineering, 2019, 67, 1-1.	2.5	15
31	Wristwatch-Style Wearable Dielectric Resonator Antennas for Applications on Limps. IEEE Access, 2020, 8, 59837-59844.	2.6	15
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	An Improved Two-Scale Model for Electromagnetic Backscattering From Sea Surface. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 953-957.	1.4	14
35	Microwave induced thermoacoustic tomography based on probabilistic reconstruction. Applied Physics Letters, 2018, 112, .	1.5	13
36	A wideband hybrid feeding circularly polarized magnetoâ€electric dipole antenna for 5G Wiâ€Fi. Microwave and Optical Technology Letters, 2018, 60, 1837-1842.	0.9	13

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37	A directional circularly polarized crossedâ€dipole antenna with bandwidth enhancement. Microwave and Optical Technology Letters, 2018, 60, 2161-2167.	0.9	12
38	Full Equiphase Characteristic Mode Solution to Lossless Composite Metallic-Dielectric Problems. IEEE Transactions on Antennas and Propagation, 2021, 69, 8526-8538.	3.1	12
39	A novel vivaldi antenna with extended ground plane stubs for ultrawideband applications. Microwave and Optical Technology Letters, 2015, 57, 983-987.	0.9	11
40	Compact planar quasiâ€Yagi antenna with bandâ€notched characteristic for WLAN and DSRC for ultraâ€wideband applications. IET Microwaves, Antennas and Propagation, 2018, 12, 1239-1245.	0.7	11
41	Estimation and Utilization of Ground Effects on Conformal Dielectric Resonator Antennas. IEEE Access, 2019, 7, 162387-162394.	2.6	11
42	Improved HMSIW Cavity-Cascaded Array With High Front-to-Back Ratio Based on Complementary Element. IEEE Transactions on Antennas and Propagation, 2020, 68, 6821-6825.	3.1	11
43	Unified Implementation and Cross-Validation of the Integral Equation-Based Formulations for the Characteristic Modes of Dielectric Bodies. IEEE Access, 2020, 8, 5655-5666.	2.6	11
44	Adaptive detection of point-like targets based on a reduced-dimensional data model. Signal Processing, 2019, 158, 36-47.	2.1	10
45	A Single-Layer Differential Substrate-Integrated Slot Antenna With Common-Mode Rejection. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 392-396.	2.4	10
46	Simulation framework for activity recognition and benchmarking in different radar geometries. IET Radar, Sonar and Navigation, 2021, 15, 390-401.	0.9	10
47	A New Variable Step-Size Affine Projection Sign Algorithm Based on A Posteriori Estimation Error Analysis. Circuits, Systems, and Signal Processing, 2017, 36, 1989-2011.	1.2	9
48	Fast Point-Based KD-Tree Construction Method for Hybrid High Frequency Method in Electromagnetic Scattering. IEEE Access, 2018, 6, 38348-38355.	2.6	9
49	Single Slot Antenna With Multiple Radiation Modes Using a Parasitic Loop Pair. IEEE Transactions on Antennas and Propagation, 2019, 67, 1335-1340.	3.1	9
50	Alternative Surface Integral Equation-Based Characteristic Mode Formulations for Composite Metallic-Dielectric Objects. IEEE Access, 2020, 8, 5201-5211.	2.6	9
51	Fullâ€polarisation threeâ€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
52	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
53	Design and analysis of a compact omnidirectional UWB slot antenna. Microwave and Optical Technology Letters, 2019, 61, 1917-1923.	0.9	8
54	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

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55	Method of solving ambiguity for sparse array via power estimation based on MUSIC algorithm. Signal Processing, 2012, 92, 542-546.	2.1	7
56	Resolving manifold ambiguities for directionâ€ofâ€arrival estimation of sparse array using semiâ€circular substrates. IET Microwaves, Antennas and Propagation, 2013, 7, 1016-1020.	0.7	7
57	Enhanced directivity and bandwidth of a stepped openâ€slot antenna with Lâ€shaped slots and parasitic strip. IET Microwaves, Antennas and Propagation, 2014, 8, 465-473.	0.7	7
58	CFAR subspace detectors with multiple observations in system-dependent clutter background. Signal Processing, 2018, 153, 58-70.	2.1	7
59	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
60	Wideband SIW Half-Mode/Quarter-Mode-Fed Microstrip Patch Complementary Antennas With Back Radiation Suppression. IEEE Access, 2021, 9, 48963-48970.	2.6	7
61	A Novel Capacitive Cross-Coupling Structure for Ceramic-Filled Cavity Filters. IEEE Access, 2021, 9, 27201-27209.	2.6	7
62	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
63	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
64	Broadband unidirectional printed antenna with quadâ€folded dipoles for circular polarization. Microwave and Optical Technology Letters, 2015, 57, 2871-2876.	0.9	6
65	Investigation of dual-band omnidirectional rectangular dielectric resonator antenna. Journal of Electromagnetic Waves and Applications, 2016, 30, 1407-1416.	1.0	6
66	Substrate-Integrated-Waveguide-Based Complementary Source Array With Enhanced Beamwidth. IEEE Transactions on Antennas and Propagation, 2021, 69, 5136-5141.	3.1	6
67	Printed doubleâ€dipole antenna with high directivity using a new feeding structure. IET Microwaves, Antennas and Propagation, 2014, 8, 1186-1191.	0.7	5
68	Design of Composite Microstrip-Monopole Antenna With 180^circ 1 dB Beamwidth Based on Complementary Sources Concept. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1577-1581.	2.4	5
69	Higher-Order Characteristic Modes-Based Broad-Beam Dielectric Resonator Antenna. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 818-822.	2.4	5
70	Multipole Modes Excitation of uncoupled dark Plasmons Resonators based on Frequency Selective Surface at X-band Frequency Regime. Scientific Reports, 2017, 7, 9492.	1.6	4
71	A Novel Electromagnetic Powerâ€Based Characteristic Mode for Magnetodielectric Materials. Radio Science, 2018, 53, 458-471.	0.8	4
72	A Modified Model for Electromagnetic Scattering of Sea Surface Covered with Crest Foam and Static Foam. Remote Sensing, 2020, 12, 788.	1.8	4

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73	Design of High-Gain Circularly Polarized Antennas Based on Vehicle Application Environment. IEEE Access, 2020, 8, 112735-112741.	2.6	4
74	Embedded Design of Compact Broadband Omnidirectional Antenna With Quad-Polarization Diversity. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 18-22.	2.4	4
75	Wideband Endfire Dielectric Resonator Antenna Employing Fundamental and Higher Order Magnetoelectric Resonances. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2524-2528.	2.4	4
76	Development of microwave-induced thermo-acoustic tomography prototype system. Science Bulletin, 2009, 54, 4446-4450.	4.3	3
77	Design of beam-tilted array antenna for UWB location system. , 2015, , .		3
78	Four port compact multimode patch antenna system for vehicular application. , 2016, , .		3
79	Bandwidth enhancement of wide-slot antenna array for UWB applications. , 2017, , .		3
80	A novel teaching platform design with CAI for EM education. Computer Applications in Engineering Education, 2018, 26, 1318-1323.	2.2	3
81	Miniaturized Conformal Arc Dielectric Resonator Antennas Using Dielectric and Metallic Loading. IEEE Access, 2019, 7, 139518-139525.	2.6	3
82	Unidirectional Dielectric Resonator Antennas Employing Electric and Magnetic Dipole Moments. IEEE Transactions on Antennas and Propagation, 2021, 69, 6918-6923.	3.1	3
83	Design of UWB Antenna with Double Band-notched in 5G. , 2021, , .		3
84	Low-Profile High-Aperture-Efficiency Air-Filled Substrate Integrated Cavity Antenna Array. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1442-1446.	2.4	3
85	Efficient Secure Communication in 4-D Antenna Arrays Through Joint Spaceâ€“Time Modulation. IEEE Transactions on Antennas and Propagation, 2022, 70, 7046-7056.	3.1	3
86	The new design of miniaturized dual-band 180° hybrid-ring coupler. , 2012, , .		2
87	A printed antenna array fed by balanced Schiffman shifter used for UWB location system. , 2015, , .		2
88	Investigation of the regularization parameter of subspace-based optimization method for reconstruction of uniaxial anisotropic objects. , 2016, , .		2
89	Clustering Data Association Using Data Relevance in Spatial Domain for Doppler-Only RSN Localization. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 3018-3031.	2.6	2
90	A Circularly Polarized Antenna Element Based on Open-ended Waveguide. , 2019, , .		2

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91	Ceramic Dielectric-Filled Cavity Filter. , 2020, , .		2
92	Persymmetric Adaptive Detection With Reduced-Dimension Approach. IEEE Signal Processing Letters, 2020, 27, 565-569.	2.1	2
93	Adaptive detection of distributed targets in noise and interference which is partially related with targets. , 2020, 103, 102757.		2
94	Metaâ€surface loading broadband and highâ€aperture efficiency dual circularly polarized patch antenna. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22525.	0.8	2
95	A circularly polarized microstrip patch antenna with enhanced bandwidth based on substrate integrated waveguide techniques. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22669.	0.8	2
96	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
97	UWB-based Machine Learning Optimized 3D Positioning Algorithm. , 2022, , .		2
98	The Design of an Omni-directional Broadband Planar Vehicle Antenna. , 2006, , .		1
99	Design of a novel dual polarization wideband basestation antenna. , 2010, , .		1
100	A multimode annular ring patch antenna for MIMO applications. , 2015, , .		1
101	A diagonalized improved subspaceâ€based optimization method for solving 2â€D inverse scattering problems. Microwave and Optical Technology Letters, 2017, 59, 2089-2095.	0.9	1
102	A Dual Circularly Polarized Rectenna with Wide-Beam. , 2018, , .		1
103	A broadband and low cross polarization antenna with a balun of microstrip line coupling to slot line. PLoS ONE, 2018, 13, e0194181.	1.1	1
104	Multiple Off-grid Targets Localization Based on Grid Evolution Method. , 2019, , .		1
105	A Compact Slot Antenna for UWB Positioning Application. , 2019, , .		1
106	Improved Surface Integral Equation-Based Formulation for Characteristic Modes of Composite Metallic-Dielectric Objects. , 2020, , .		1
107	Design of wideband endâ€fire composite microstripâ€monopole antenna. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22837.	0.8	1
108	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

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109	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
110	SIE-Based Substructure Characteristic Mode Analysis on Stacked Dielectric Resonator Antennas. , 2021, , .		1
111	Time-divided multi-channel technique for EM-TRM based object detection system in complex environment. , 2009, , .		0
112	ANALYSIS OF BLOCK-SOR ITERATION FOR THE THREE-DIMENSIONAL LAPLACIAN. ANZIAM Journal, 2009, 50, 501-512.	0.3	0
113	Design of an optical fibre system for time-domain impulse signal transmission. , 2012, , .		0
114	Analysis of rectangular microstrip antenna using theory of characteristic modes. , 2015, , .		0
115	Research on pyramidal horn antenna using integrated optical E-field probe. , 2015, , .		0
116	Analysis of the cross-dipole planar antennas using Theory of Characteristic Modes. , 2016, , .		0
117	The design of a wideband dual-polarized planar antenna. , 2016, , .		0
118	Broadband planar quasi-Yagi antenna with band rejection. , 2016, , .		0
119	Obtaining source current density related to irregularly structured electromagnetic target field inside human body using hybrid inverse/FDTD method. Electromagnetic Biology and Medicine, 2017, 36, 169-176.	0.7	0
120	A New Data-Reusing Algorithm Based on Minimum Norm and Minimum Disturbance Principles. Circuits, Systems, and Signal Processing, 2017, 36, 1948-1969.	1.2	0
121	Planar quasi-yagi antenna with band rejection characteristics for UWB applications. , 2017, , .		0
122	Frequency Measurement by FFT and Frequency Counting. , 2018, , .		0
123	A UWB Label Pulse Energy Recovery Circuit. , 2018, , .		0
124	Compact Planar Filtering Quasi-Yagi Antenna for Ultra-Wideband Applications. , 2018, , .		0
125	A High-gain Low-profile Bow-tie-shaped Microstrip Patch Antenna under Dual-mode Resonance. , 2019, , .		0
126	A Broadband Omnidirectional Circularly Polarized Dielectric Resonator Antenna. , 2019, , .		0

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127	Dualâ€polarized beamâ€switching Yagiâ€“Uda patch antenna with large tilted angle. Microwave and Optical Technology Letters, 2021, 63, 1445-1451.	0.9	0
128	VESBR for the Electromagnetic Scattering of Multilayered Dielectric Objects. , 2021, , .		0
129	Joint Inversion of Electromagnetic and Acoustic Data with Spatial-Constrained by FCM. , 2021, , .		0
130	Joint Inversion of Electromagnetic and Acoustic Data Based on Structural Constraints with TE Illumination. , 2021, , .		0
131	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
132	Compact Single-Layer Antenna with Large Frequency Ratio and Multiple Polarizations. , 2021, , .		0
133	End-Fire Microstrip Patch Antenna by Mixed Electric and Magnetic Excitation. , 2021, , .		0
134	Low-Profile Unidirectional Broadband Circularly Polarized Antenna With Metasurface Loaded. , 2021, , .		0
135	A Monopole Antenna with Switchable and Tunable Band Notch for UWB Applications. , 2021, , .		0
136	Urltra-Wideband Patch Antenna with Shorting Parasitic Rings. , 2021, , .		0
137	Design of Wideband Endfire Microstrip-Based Complementary Sources Antenna. , 2021, , .		0