

Yikai Chen

List of Publications by Year in descending order

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247
papers

5,446
citations

94433

37
h-index

133252

59
g-index

254
all docs

254
docs citations

254
times ranked

4341
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar-Driven Reduction of 1 atm of CO ₂ to Formate at 10% Energy-Conversion Efficiency by Use of a TiO ₂ -Protected III ^V Tandem Photoanode in Conjunction with a Bipolar Membrane and a Pd/C Cathode. ACS Energy Letters, 2016, 1, 764-770.	17.4	173
2	Decoupling and Low-Profile Design of Dual-Band Dual-Polarized Base Station Antennas Using Frequency-Selective Surface. IEEE Transactions on Antennas and Propagation, 2019, 67, 5272-5281.	5.1	160
3	A NOVEL ELECTRONIC BEAM STEERING TECHNIQUE IN TIME MODULATED ANTENNA ARRAY. Progress in Electromagnetics Research, 2009, 97, 391-405.	4.4	149
4	Anti-bacterial and cytotoxic properties of plasma sprayed silver-containing HA coatings. Journal of Materials Science: Materials in Medicine, 2008, 19, 3603-3609.	3.6	135
5	Electrically Small UAV Antenna Design Using Characteristic Modes. IEEE Transactions on Antennas and Propagation, 2014, 62, 535-545.	5.1	133
6	Characteristic-Mode-Based Improvement of Circularly Polarized U-Slot and E-Shaped Patch Antennas. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1474-1477.	4.0	122
7	Modeling, Simulation, and Implementation of Solar-Driven Water-Splitting Devices. Angewandte Chemie - International Edition, 2016, 55, 12974-12988.	13.8	119
8	A Stabilized, Intrinsically Safe, 10% Efficient, Solar-Driven Water-Splitting Cell Incorporating Earth-Abundant Electrocatalysts with Steady-State pH Gradients and Product Separation Enabled by a Bipolar Membrane. Advanced Energy Materials, 2016, 6, 1600379.	19.5	114
9	The Application of a Modified Differential Evolution Strategy to Some Array Pattern Synthesis Problems. IEEE Transactions on Antennas and Propagation, 2008, 56, 1919-1927.	5.1	106
10	Bandwidth Enhancement Method for Low Profile E-Shaped Microstrip Patch Antennas. IEEE Transactions on Antennas and Propagation, 2010, 58, 2442-2447.	5.1	104
11	HF Band Shipboard Antenna Design Using Characteristic Modes. IEEE Transactions on Antennas and Propagation, 2015, 63, 1004-1013.	5.1	91
12	Modeling, Simulation, and Fabrication of a Fully Integrated, Acid-Stable, Scalable Solar-Driven Water-Splitting System. ChemSusChem, 2015, 8, 544-551.	6.8	89
13	A Novel Stacked Antenna Configuration and its Applications in Dual-Band Shared-Aperture Base Station Antenna Array Designs. IEEE Transactions on Antennas and Propagation, 2019, 67, 7234-7241.	5.1	86
14	A Low Profile Dual-Polarized Wideband Omnidirectional Antenna Based on AMC Reflector. IEEE Transactions on Antennas and Propagation, 2017, 65, 368-374.	5.1	82
15	Silver release from silver-containing hydroxyapatite coatings. Surface and Coatings Technology, 2010, 205, 1892-1896.	4.8	76
16	Accurate Models of Time-Invariant Beampatterns for Frequency Diverse Arrays. IEEE Transactions on Antennas and Propagation, 2019, 67, 3022-3029.	5.1	76
17	Dual-Band Shared-Aperture Base Station Antenna Array With Electromagnetic Transparent Antenna Elements. IEEE Transactions on Antennas and Propagation, 2021, 69, 5596-5606.	5.1	72
18	A quantitative analysis of the efficiency of solar-driven water-splitting device designs based on tandem photoabsorbers patterned with islands of metallic electrocatalysts. Energy and Environmental Science, 2015, 8, 1736-1747.	30.8	66

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19	Wideband Dual-Polarized Linear Array of Tightly Coupled Elements. IEEE Transactions on Antennas and Propagation, 2018, 66, 476-480.	5.1	59
20	Atomic force microscopy with nanoelectrode tips for high resolution electrochemical, nanoadhesion and nanoelectrical imaging. Nanotechnology, 2017, 28, 095711.	2.6	58
21	Practical Implementation of Wideband and Wide-Scanning Cylindrically Conformal Phased Array. IEEE Transactions on Antennas and Propagation, 2019, 67, 5729-5733.	5.1	56
22	Pattern Synthesis of 4-D Irregular Antenna Arrays Based on Maximum-Entropy Model. IEEE Transactions on Antennas and Propagation, 2019, 67, 3048-3057.	5.1	56
23	Modeling an integrated photoelectrolysis system sustained by water vapor. Energy and Environmental Science, 2013, 6, 3713.	30.8	52
24	Operational constraints and strategies for systems to effect the sustainable, solar-driven reduction of atmospheric CO ₂ . Energy and Environmental Science, 2015, 8, 3663-3674.	30.8	52
25	Synthesis of Reactively Controlled Antenna Arrays Using Characteristic Modes and DE Algorithm. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 385-388.	4.0	51
26	Alternative surface integral equation-based characteristic mode analysis of dielectric resonator antennas. IET Microwaves, Antennas and Propagation, 2016, 10, 193-201.	1.4	50
27	A comparison of the chemical, optical and electrocatalytic properties of water-oxidation catalysts for use in integrated solar-fuel generators. Energy and Environmental Science, 2017, 10, 987-1002.	30.8	50
28	Harmonic Beamforming in Antenna Array With Time-Modulated Amplitude-Phase Weighting Technique. IEEE Transactions on Antennas and Propagation, 2019, 67, 6461-6472.	5.1	50
29	Integration of 5G Rectangular MIMO Antenna Array and GSM Antenna for Dual-Band Base Station Applications. IEEE Access, 2020, 8, 63175-63187.	4.2	46
30	Low-Profile, Lightweight, Ultra-Wideband Tightly Coupled Dipole Arrays Loaded With Split Rings. IEEE Transactions on Antennas and Propagation, 2019, 67, 4257-4262.	5.1	45
31	Effect of Ti-OH formation on bioactivity of vacuum plasma sprayed titanium coating after chemical treatment. Surface and Coatings Technology, 2007, 202, 494-498.	4.8	43
32	A Low-Profile Wideband Tightly Coupled Dipole Array With Reduced Scattering Using Polarization Conversion Metamaterial. IEEE Transactions on Antennas and Propagation, 2019, 67, 5353-5361.	5.1	41
33	Antibacterial properties of vacuum plasma sprayed titanium coatings after chemical treatment. Surface and Coatings Technology, 2009, 204, 685-690.	4.8	40
34	Dual-Band Dual-Polarized Antenna Array With Flat-Top and Sharp Cutoff Radiation Patterns for 2G/3G/LTE Cellular Bands. IEEE Transactions on Antennas and Propagation, 2018, 66, 5907-5917.	5.1	40
35	Ultrawideband Phased Antenna Arrays Based on Tightly Coupled Open Folded Dipoles. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 378-382.	4.0	40
36	Optical Waveguide Based on a Polarized Polydiacetylene Microtube. Advanced Materials, 2014, 26, 3136-3141.	21.0	39

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37	Back focal plane imaging of directional emission from dye molecules coupled to one-dimensional photonic crystals. <i>Nanotechnology</i> , 2014, 25, 145202.	2.6	38
38	Efficient Sideband Suppression in 4-D Antenna Arrays Through Multiple Time Modulation Frequencies. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 7063-7072.	5.1	38
39	An Ultra-Wideband Tightly Coupled Dipole Array Co-Designed With Low Scattering Characteristics. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 676-680.	5.1	38
40	Bandwidth Enhancement of a Dual-Polarized Slot Antenna Using Characteristic Modes. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 988-992.	4.0	37
41	Convex Optimization of Pencil Beams Through Large-Scale 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 3453-3462.	5.1	37
42	Synthesis of Uniform Amplitude Thinned Linear Phased Arrays Using the Differential Evolution Algorithm. <i>Electromagnetics</i> , 2007, 27, 287-297.	0.7	36
43	Tamm plasmon- and surface plasmon-coupled emission from hybrid plasmonic photonic structures. <i>Optica</i> , 2014, 1, 407.	9.3	36
44	Surface integral equation based characteristic mode formulation for dielectric resonators. , 2014, , .		36
45	Modeling the Performance of an Integrated Photoelectrolysis System with 10 Å— Solar Concentrators. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1101-F1110.	2.9	36
46	Helical Torsion Coaxial Cable for Dual-Band Shared-Aperture Antenna Array Decoupling. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 6128-6135.	5.1	36
47	Label-Free Chemical Imaging of Latent Fingerprints with Stimulated Raman Scattering Microscopy. <i>Analytical Chemistry</i> , 2017, 89, 4468-4473.	6.5	33
48	Wideband Wide-Scanning Phased Array With Connected Backed Cavities and Parasitic Striplines. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 1767-1775.	5.1	33
49	A sensitivity analysis to assess the relative importance of improvements in electrocatalysts, light absorbers, and system geometry on the efficiency of solar-fuels generators. <i>Energy and Environmental Science</i> , 2015, 8, 876-886.	30.8	32
50	PeakForce Scanning Electrochemical Microscopy with Nanoelectrode Probes. <i>Microscopy Today</i> , 2016, 24, 18-25.	0.3	32
51	Characteristic Mode Formulation for Dielectric Coated Conducting Bodies. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 1248-1258.	5.1	32
52	Generalized Characteristic-Mode Formulation for Composite Structures With Arbitrarily Metallic Dielectric Combinations. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 3556-3566.	5.1	32
53	Synthesis of satellite footprint patterns from time-modulated planar arrays with very low dynamic range ratios. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2008, 21, 493-506.	1.9	31
54	Dual-Polarized Tightly Coupled Dipole Array for UHF-Band Satellite Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 467-471.	4.0	31

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55	In-Band Scattering Control of Ultra-Wideband Tightly Coupled Dipole Arrays Based on Polarization-Selective Metamaterial Absorber. IEEE Transactions on Antennas and Propagation, 2020, 68, 7927-7936.	5.1	31
56	An Improved Phase Modulation Technique Based on Four-Dimensional Arrays. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1175-1178.	4.0	30
57	Improving conflicting specifications of time-modulated antenna arrays by using a multiobjective evolutionary algorithm. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2012, 25, 205-215.	1.9	28
58	A Study on the Application of Subarrayed Time-Modulated Arrays to MIMO Radar. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1171-1174.	4.0	28
59	Label-free pathology by spectrally sliced femtosecond stimulated Raman scattering (SRS) microscopy. PLoS ONE, 2017, 12, e0178750.	2.5	28
60	In-Band Radar Cross-Section Reduction of Slot Antenna Using Characteristic Modes. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1166-1170.	4.0	28
61	Optical Modulation of Waveguiding in Spiropyran-Functionalized Polydiacetylene Microtube. ACS Applied Materials & Interfaces, 2014, 6, 15466-15471.	8.0	26
62	A Joint Optimization Approach for the Synthesis of Large 4-D Heterogeneous Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2017, 65, 4585-4594.	5.1	26
63	Effect of metal film thickness on Tamm plasmon-coupled emission. Physical Chemistry Chemical Physics, 2014, 16, 25523-25530.	2.8	25
64	In vitro antibacterial and osteogenic properties of plasma sprayed silver-containing hydroxyapatite coating. Science Bulletin, 2009, 54, 4438-4445.	9.0	24
65	A NOVEL WIDEBAND ANTENNA ARRAY WITH TIGHTLY COUPLED OCTAGONAL RING ELEMENTS. Progress in Electromagnetics Research, 2012, 124, 55-70.	4.4	24
66	Surface-plasmon-coupled emission microscopy with a polarization converter. Optics Letters, 2013, 38, 736.	3.3	24
67	Identification methods of key contributing factors in crashes with high numbers of fatalities and injuries in China. Traffic Injury Prevention, 2016, 17, 878-883.	1.4	24
68	Modeling and Simulation of the Spatial and Light-Intensity Dependence of Product Distributions in an Integrated Photoelectrochemical CO ₂ Reduction System. ACS Energy Letters, 2016, 1, 273-280.	17.4	24
69	A 3-D-Printed Multibeam Spherical Lens Antenna With Ultrawide-Angle Coverage. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 411-415.	4.0	24
70	Synthesis of Optimal Sum and Difference Patterns from Time Modulated Hexagonal Planar Arrays. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 933-945.	0.6	23
71	Synthesis of Irregular Phased Arrays Subject to Constraint on Directivity via Convex Optimization. IEEE Transactions on Antennas and Propagation, 2021, 69, 4235-4240.	5.1	23
72	A Ferrite-Loaded Ultralow Profile Ultrawideband Tightly Coupled Dipole Array. IEEE Transactions on Antennas and Propagation, 2022, 70, 1965-1975.	5.1	23

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73	Effect of driving conditions and suspension parameters on dynamic load-sharing of longitudinal-connected air suspensions. <i>Science China Technological Sciences</i> , 2013, 56, 666-676.	4.0	22
74	Efficient Pencil Beam Synthesis in 4-D Antenna Arrays Using an Iterative Convex Optimization Algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 6847-6858.	5.1	22
75	In-Band Scattering Reduction of Wideband Phased Antenna Arrays With Enhanced Coupling Based on Phase-Only Optimization Techniques. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 5297-5307.	5.1	22
76	DESIGN AND ANALYSIS OF WIDEBAND PLANAR MONOPOLE ANTENNAS USING THE MULTILEVEL FAST MULTIPOLE ALGORITHM. <i>Progress in Electromagnetics Research B</i> , 2009, 15, 95-112.	1.0	21
77	4-D Retro-Directive Antenna Arrays for Secure Communication Based on Improved Directional Modulation. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 5926-5933.	5.1	21
78	Application of Characteristic Mode Theory in HF Band Aircraft-Integrated Multi-antenna System Designs. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 513-521.	5.1	21
79	A Low-Profile Triple-Band Shared-Aperture Antenna Array for 5G Base Station Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 2732-2739.	5.1	21
80	Adaptive Nulling with Time-Modulated Antenna Arrays Using a Hybrid Differential Evolution Strategy. <i>Electromagnetics</i> , 2010, 30, 574-588.	0.7	20
81	A Hybrid Analog-Digital Adaptive Beamforming in Time-Modulated Linear Arrays. <i>Electromagnetics</i> , 2010, 30, 356-364.	0.7	20
82	Applying latent class analysis to investigate rural highway single-vehicle fatal crashes in China. <i>Accident Analysis and Prevention</i> , 2020, 148, 105840.	5.7	20
83	Analysis of common-cause and special-cause variation in the deterioration of transportation infrastructure: A field application of statistical process control for structural health monitoring. <i>Transportation Research Part B: Methodological</i> , 2014, 59, 96-116.	5.9	19
84	LPI Beamforming Based on 4-D Antenna Arrays With Pseudorandom Time Modulation. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 2068-2077.	5.1	19
85	Spatiotemporal analysis of crash severity on rural highway: A case study in Anhui, China. <i>Accident Analysis and Prevention</i> , 2022, 165, 106538.	5.7	19
86	Surface enhanced Raman scattering arising from plasmonic interaction between silver nano-cubes and a silver grating. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	18
87	Fabrication of Thermoelectric Devices Using Thermal Spray: Application to Vehicle Exhaust Systems. <i>Journal of Thermal Spray Technology</i> , 2013, 22, 577-587.	3.1	18
88	Large area sub-wavelength azo-polymer gratings by waveguide modes interference lithography. <i>Applied Physics Letters</i> , 2013, 102, 031103.	3.3	18
89	Back focal plane imaging of Tamm plasmons and their coupled emission. <i>Laser and Photonics Reviews</i> , 2014, 8, 933-940.	8.7	18
90	Scattering Decomposition and Control for Fully Dielectric-Coated PEC Bodies Using Characteristic Modes. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 118-121.	4.0	18

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91	Cross-Band Mutual Coupling Reduction in Dual-Band Base-Station Antennas With a Novel Grid Frequency Selective Surface. IEEE Transactions on Antennas and Propagation, 2021, 69, 8991-8996.	5.1	17
92	Synthesis, Control, and Excitation of Characteristic Modes for Platform-Integrated Antenna Designs: A design philosophy. IEEE Antennas and Propagation Magazine, 2022, 64, 41-48.	1.4	17
93	Design of a novel monopulse antenna system using the time-modulated antenna arrays. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 163-169.	1.2	16
94	Mixed-Potential Integral Equation Based Characteristic Mode Analysis of Microstrip Antennas. International Journal of Antennas and Propagation, 2016, 2016, 1-8.	1.2	15
95	Coupling of Fluorophores in Single Nanoapertures with Tamm Plasmon Structures. Journal of Physical Chemistry C, 2019, 123, 1413-1420.	3.1	15
96	In-Band Scattering Reduction for a U-Slot Patch Antenna. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 312-316.	4.0	15
97	Failure modes of protection layers produced by atomic layer deposition of amorphous TiO ₂ on GaAs anodes. Energy and Environmental Science, 2020, 13, 4269-4279.	30.8	15
98	Transmit Beamforming Based on 4-D Antenna Arrays for Low Probability of Intercept Systems. IEEE Transactions on Antennas and Propagation, 2020, 68, 3625-3634.	5.1	15
99	Synthesis of Sparse Antenna Arrays Subject to Constraint on Directivity via Iterative Convex Optimization. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1498-1502.	4.0	15
100	Direction finding based on TMAs with reconfigurable angle searching range and bearing accuracy. Electronics Letters, 2017, 53, 130-132.	1.0	14
101	High-Directivity Optimization Technique for Irregular Arrays Combined With Maximum Entropy Model. IEEE Transactions on Antennas and Propagation, 2021, 69, 3913-3923.	5.1	14
102	A Wideband, Low-Profile Log-Periodic Monopole Array With End-Fire Scanning Beams. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2414-2418.	4.0	13
103	Fast Analysis of Parallel-Plate Cylindrical Luneberg Lens Antennas Through Dyadic Green's Functions. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4327-4337.	4.6	13
104	Sparsely Excited Tightly Coupled Dipole Arrays Based on Irregular Array Techniques. IEEE Transactions on Antennas and Propagation, 2020, 68, 6098-6108.	5.1	13
105	Hybrid Directional Modulation and Beamforming for Physical Layer Security Improvement Through 4-D Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2021, 69, 5903-5912.	5.1	13
106	A Self-Decoupling Method for Antenna Arrays Using High-Order Characteristic Modes. IEEE Transactions on Antennas and Propagation, 2022, 70, 2760-2769.	5.1	13
107	An Electromagnetic-Transparent Cascade Comb Dipole Antenna for Multi-Band Shared-Aperture Base Station Antenna Array. IEEE Transactions on Antennas and Propagation, 2022, 70, 2750-2759.	5.1	13
108	Synthesis of platform integrated antennas for reconfigurable radiation patterns using the theory of characteristic modes. , 2012, , .		12

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109	Excitation of Broadband Surface Plasmons with Dye Molecules. <i>Plasmonics</i> , 2012, 7, 309-312.	3.4	12
110	Development and field application of a multivariate statistical process control framework for health-monitoring of transportation infrastructure. <i>Transportation Research Part B: Methodological</i> , 2015, 81, 78-102.	5.9	12
111	Synthesis of large-scale non-uniformly spaced 4D arrays using an IFT method. <i>IET Microwaves, Antennas and Propagation</i> , 2018, 12, 1973-1977.	1.4	12
112	Efficient Design of Tightly Coupled Dipole Array Using an Equivalent Circuit-Based Approach. <i>IEEE Access</i> , 2020, 8, 14013-14023.	4.2	12
113	Radar Cross Section Reduction of Wideband Vivaldi Antenna Arrays With Array-Level Scattering Cancellation. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 6740-6750.	5.1	12
114	Multiple Patterns from Time-Modulated Linear Antenna Arrays. <i>Electromagnetics</i> , 2008, 28, 562-571.	0.7	11
115	Phased Hemispherical Lens Antenna for 1-D Wide-Angle Beam Scanning. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 7617-7621.	5.1	11
116	In-Band Scattering and Radiation Tradeoff of Broadband Phased Arrays Based on Scattering-Matrix Approach. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 7486-7496.	5.1	11
117	Differences in Factors Affecting Various Crash Types with High Numbers of Fatalities and Injuries in China. <i>PLoS ONE</i> , 2016, 11, e0158559.	2.5	10
118	Modellierung, Simulation und Implementierung von Zellen für die solarbetriebene Wasserspaltung. <i>Angewandte Chemie</i> , 2016, 128, 13168-13183.	2.0	10
119	Optimization of Geometric Parameters of Longitudinal-Connected Air Suspension Based on a Double-Loop Multi-Objective Particle Swarm Optimization Algorithm. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1454.	2.5	10
120	Robust kinematics design of MacPherson suspension based on a double-loop multi-objective particle swarm optimization algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 3263-3278.	1.9	10
121	Complete and Unified Time- and Frequency-Domain Study on 4-D Antenna Arrays Including Mutual Coupling Effect. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 824-837.	5.1	10
122	DOA Estimation via Sparse Signal Recovery in 4-D Linear Antenna Arrays With Optimized Time Sequences. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 771-783.	6.3	10
123	Aircraft-Integrated VHF Band Antenna Array Designs Using Characteristic Modes. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 7358-7369.	5.1	10
124	A crash risk identification method for freeway segments with horizontal curvature based on real-time vehicle kinetic response. <i>Accident Analysis and Prevention</i> , 2021, 150, 105911.	5.7	10
125	Integrated Study of APS YSZ Coatings with Different Spray Angle. <i>Journal of Thermal Spray Technology</i> , 2013, 22, 110-115.	3.1	9
126	Model Development and Dynamic Load-Sharing Analysis of Longitudinal-Connected Air Suspensions. <i>Strojnikski Vestnik/Journal of Mechanical Engineering</i> , 2013, 59, 14-24.	1.1	9

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127	A Novel Method for Maximum Directivity Synthesis of Irregular Phased Arrays. IEEE Transactions on Antennas and Propagation, 2022, 70, 4426-4438.	5.1	9
128	Thermoelectric Properties of Magnesium Silicide Deposited by Use of an Atmospheric Plasma Thermal Spray. Journal of Electronic Materials, 2014, 43, 2723-2730.	2.2	8
129	Realization of multiple orbital angular momentum modes simultaneously through four-dimensional antenna arrays. Scientific Reports, 2018, 8, 149.	3.3	8
130	A Novel Printed Dual-Log-Periodic Array Antenna for UHF Near-Field RFID Applications. IEEE Transactions on Antennas and Propagation, 2018, 66, 7418-7423.	5.1	8
131	A Crash Severity Prediction Method Based on Improved Neural Network and Factor Analysis. Discrete Dynamics in Nature and Society, 2020, 2020, 1-13.	0.9	8
132	Identification of black spots on highways using fault tree analysis and vehicle safety boundaries. Journal of Transportation Safety and Security, 2021, 13, 46-68.	1.6	8
133	An Irregular Tiled Array Technique for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2022, 21, 4509-4521.	9.2	8
134	Polymer-loaded propagating modes on a one-dimensional photonic crystal. Applied Physics Letters, 2014, 104, 061115.	3.3	7
135	Shipboard NVIS radiation system design using the theory of characteristic modes. , 2014, , .		7
136	Extremely low-profile wideband dual-polarized microstrip antenna for micro-base-station applications. International Journal of RF and Microwave Computer-Aided Engineering, 2017, 27, e21091.	1.2	7
137	Wideband Tightly Coupled Dipole Arrays With Balanced Scattering and Radiation Based on a Black-Box Method. IEEE Access, 2019, 7, 118402-118410.	4.2	7
138	A wide-€scanning ellipsoid lens antenna fed by phased array antenna. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22127.	1.2	7
139	Design of a Low-Profile and Low Scattering Wideband Planar Phased Antenna Array. IEEE Transactions on Antennas and Propagation, 2021, 69, 8973-8978.	5.1	7
140	Design and analysis of an amplitude-phase weighting module for harmonic beamforming in time-modulated antenna arrays. AEU - International Journal of Electronics and Communications, 2021, 138, 153835.	2.9	7
141	In-Band Scattering Cancellation Techniques for Vivaldi Antenna Array. IEEE Transactions on Antennas and Propagation, 2022, 70, 3411-3420.	5.1	7
142	Evaluation of the safety performance of highway alignments based on fault tree analysis and safety boundaries. Traffic Injury Prevention, 2018, 19, 409-416.	1.4	6
143	An effective hybrid approach for the synthesis of pencil beams and shaped beams through 4D linear antenna arrays with constrained DRR. Journal of Electromagnetic Waves and Applications, 2019, 33, 584-600.	1.6	6
144	2D flat Luneburg lens antenna for multibeam scanning application. Electronics Letters, 2019, 55, 1317-1318.	1.0	6

#	ARTICLE	IF	CITATIONS
145	Exploring relationships between microscopic kinetic parameters of tires under normal driving conditions, road characteristics and accident types. <i>Journal of Safety Research</i> , 2021, 78, 80-95.	3.6	6
146	Near-field spectrum retrieving through non-degenerate coupling emission. <i>Nanophotonics</i> , 2020, 9, 235-243.	6.0	6
147	Novel low profile ultra-wideband capacitance loaded log-periodic monopole array with reduced transverse dimension. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 1443-1449.	1.4	6
148	A Vector Modulation Approach for Secure Communications Based on 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 3723-3732.	5.1	6
149	Adaptive nulling in time-modulated antenna arrays. , 2008, , .		5
150	Contrast Enhancement in Fluorescence Microscope by Plasmonic Coupling. <i>Plasmonics</i> , 2012, 7, 209-214.	3.4	5
151	Extracting surface wave-coupled emission with subsurface dielectric gratings. <i>Optics Letters</i> , 2014, 39, 4341.	3.3	5
152	Scattering analysis for PEC and dielectric bodies using characteristic modes. , 2015, , .		5
153	A compact wideband dual-polarized linear array with hybrid structure and resistive loadings. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2019, 29, e21736.	1.2	5
154	Setting the speed limit for highway horizontal curves: A revision of inferred design speed based on vehicle system dynamics. <i>Safety Science</i> , 2022, 151, 105729.	4.9	5
155	Directional Modulation in Time-Modulated Array With a Novel Pseudorandom Ascending Phase Time Sequence. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022, 70, 3319-3328.	4.6	5
156	The role of ground plane plays in wideband phased array antenna. , 2010, , .		4
157	Dark-field imaging by active polymer slab waveguide. <i>Applied Optics</i> , 2013, 52, 8117.	1.8	4
158	Characteristic mode analysis of PEC bodies using combined field integral equation. , 2015, , .		4
159	Characteristic mode synthesis of omni-directional radiation patterns for electrically small UAV. , 2015, , .		4
160	A miniaturized wideband dual-polarized linear array with balanced antipodal Vivaldi antenna. , 2016, , .		4
161	A Circularly Polarized Luneberg Lens Antenna for Half-Space Beam Coverage. , 2019, , .		4
162	A Novel 3-D-NUFFT Method for the Efficient Calculation of the Array Factor of Conformal Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 7047-7052.	5.1	4

#	ARTICLE	IF	CITATIONS
163	<scp>Dualâ€polarized</scp> stacked microstrip antenna with <scp>tridentâ€shaped</scp> baluns for <scp>MIMO</scp> array development. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22736.	1.2	4
164	A Thinned Irregular Array Synthesis Approach Based on Benders Decomposition. IEEE Transactions on Antennas and Propagation, 2021, 69, 3875-3885.	5.1	4
165	Ultralow Scattering Design of Wideband Conformal Arrays Based on Optimally Loaded Resistors. IEEE Transactions on Antennas and Propagation, 2022, 70, 6692-6702.	5.1	4
166	A Cylindrical Luneberg Lens Antenna with Extremely Wide Fan-Beam. , 2018, , .		3
167	Low Probability of Interception Signal Transmission Based on 4D Antenna Arrays. , 2018, , .		3
168	Thinned Planar Array Synthesis Based On Multiagent Genetic Algorithm. , 2019, , .		3
169	Low-Profile Wideband Long Slot Phased Arrays Based on Novel AMC Reflectors. , 2019, , .		3
170	A <scp>lowâ€profile wideâ€scanning</scp> fully metallic lens antenna for <scp>5G</scp> communication. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22584.	1.2	3
171	Stable directional emission in active optical waveguides shielding external environmental influences. Applied Optics, 2021, 60, 6155.	1.8	3
172	INVESTIGATING FACTORS AFFECTING ROAD FREIGHT OVERLOADING THROUGH THE INTEGRATED USE OF BLR AND CART: A CASE STUDY IN CHINA. Transport, 2020, 35, 236-246.	1.2	3
173	An Ultra-wideband Dual-Polarized Low-Profile Tightly Coupled Dipole Array. , 2021, , .		3
174	Efficient Secure Communication in 4-D Antenna Arrays Through Joint Spaceâ€Time Modulation. IEEE Transactions on Antennas and Propagation, 2022, 70, 7046-7056.	5.1	3
175	Study of moving phase center antenna arrays using the FDTD method. , 2008, , .		2
176	A novel beam scanning technique in time modulated linear arrays. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	2
177	Reactively loaded antenna array design with characteristic modes and DE algorithm. , 2012, , .		2
178	Progress on Searching Optimal Thermal Spray Parameters for Magnesium Silicide. Materials Research Society Symposia Proceedings, 2013, 1490, 173-177.	0.1	2
179	LSM Protective Coatings on Stainless Steel as Interconnects for Solid Oxide Fuel Cells. Materials Research Society Symposia Proceedings, 2014, 1644, 1.	0.1	2
180	Scattering analysis for arbitrarily shaped dielectric bodies using characteristic modes. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
181	Design of a Compact Wideband Dual-Polarized Base-Station Antenna with Stable Radiation Patterns. , 2018, , .		2
182	RCS Reduction of Microstrip Antenna Based on Characteristic Mode Analysis. , 2018, , .		2
183	AMillimeter-Wave Phased Array Fed Biconvex Lens Antenna. , 2018, , .		2
184	Pattern Synthesis of a Time-modulated Vivaldi Linear Array with MOEA/D Algorithm. , 2019, , .		2
185	In-Band RCS Reduction of a U-Slot Microstrip Patch Antenna. , 2019, , .		2
186	Time-Modulated Beamforming in Antenna Arrays with Multiple Sub-Branch RF Switches. , 2019, , .		2
187	A Cylindrical Lens Antenna With Extremely Flat Beams. IEEE Access, 2019, 7, 156675-156685.	4.2	2
188	2-D Wide-Scanning Flat Luneburg Lens Antenna for 5G Communication. , 2020, , .		2
189	Fluorescence molecular localization in submicronic depth through waveguide mode coupled emission. Optics Communications, 2020, 475, 126290.	2.1	2
190	Service quality evaluation of bus lines based on improved momentum backâ€propagation neural network model: A study of Hangzhou in China. IET Intelligent Transport Systems, 2021, 15, 958-972.	3.0	2
191	Low Mutual Coupling Dual-Polarized Antenna Array with Novel Baffles for Base Station Applications. , 2020, , .		2
192	Efficient analysis of wireless communication antennas using an accurate [Z] matrix interpolation technique. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 382-390.	1.2	1
193	Dynamically generating a large-area confined optical field with subwavelength feature size. Applied Optics, 2014, 53, 6091.	1.8	1
194	An equivalent method of multi-beam laser interference lithography for 2D plasmonic crystals fabrication. Journal of Optics (United Kingdom), 2015, 17, 085001.	2.2	1
195	Efficient sideband suppression in 4D antenna arrays with multiple time modulation frequencies. , 2016, , .		1
196	Characteristic mode theory for antennas with multilayered media. , 2016, , .		1
197	An effective hybrid optimization algorithm for the synthesis of 4-D linear antenna arrays. , 2016, , .		1
198	Generation of orbital angular momentum (OAM) waves using time-modulated circular arrays. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
199	Application of characteristic modes for the analysis of scattering from dielectric coated conducting bodies. , 2017, , .		1
200	HF band aircraft integrated multi-antenna system designs using characteristic modes. , 2017, , .		1
201	A wideband tightly coupled phased array with reduced scattering characteristics. , 2017, , .		1
202	A Low Profile Dual-Band Dual-Polarized Shared-aperture Antenna for Base Station Applications. , 2018, , .		1
203	A Flush-mounted Ultra-wideband Scanning Phased Array with End-fire Radiation Pattern. , 2018, , .		1
204	Synthesis of 4D Linear Antenna Arrays Using an Iterative Convex Optimization Algorithm. , 2018, , .		1
205	Black Box Method for The Radiation and Scattering Optimization of TCDA. , 2018, , .		1
206	A Low-Profile Dual-Band Dual-Polarized Base Station Antenna Array for Sub-6 GHz Applications. , 2019, , .		1
207	An Unified Equation for Active Reflection Coefficient in 4D Antenna Arrays including Mutual Coupling Effect. , 2019, , .		1
208	An Efficient Design Approach for Wideband Tightly Coupled Antenna Arrays. , 2019, , .		1
209	Improving Physical Layer Security Technique Based on 4-D Antenna Arrays with Pre-Modulation. , 2020, , .		1
210	Fast analysis of scattering from metallic-dielectric composite large antenna arrays using characteristic modes. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2862.	1.9	1
211	An active, ultra-wideband dual-polarized tightly coupled dipole subarray for satellite communication. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22849.	1.2	1
212	Conformal Ultra-Wideband Tightly Coupled Arrays With Low-Scattering Characteristics. , 2021, , .		1
213	A Novel In-Band Scattering Cancellation Technique for Vivaldi Antenna Array. , 2021, , .		1
214	Wideband Receive Beamforming Based on 4-D Antenna Arrays With Postmodulation. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 740-744.	4.0	1
215	Integrated Radar and Communication Design With Low Probability of Intercept Based on 4-D Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2022, 70, 8496-8506.	5.1	1
216	Nonlinear Analysis of a Dynamical Model with Next-nearest-neighbor Interaction for Traffic. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
217	Direction of arrival estimation in time modulated linear arrays. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	0
218	Subarrayed 4D antenna arrays with tapered amplitude excitations. , 2016, , .		0
219	Analysis of dielectric coated conducting bodies using characteristic mode theory. , 2017, , .		0
220	A planar ultrawideband linear array with resistor-loaded FSS. , 2017, , .		0
221	Characteristic mode analysis of composite metallic-dielectric bodies. , 2017, , .		0
222	Efficient pattern synthesis of large scale four-dimensional heterogeneous antenna arrays. , 2017, , .		0
223	Generation of orbital angular momentum modes by four dimensional antenna arrays. , 2017, , .		0
224	Characteristic Mode Synthesis of Scanning Beam Patterns for Aircraft Applications. , 2018, , .		0
225	Scattering Control Using Advanced Characteristic Mode Theories. , 2018, , .		0
226	Planar Printed Quasi-Yagi Antenna Designs Using Characteristic Modes. , 2018, , .		0
227	Crossing Space, Time And Frequency Domains: Recent Developments of Four-Dimensional Antenna Arrays. , 2019, , .		0
228	A Low-Profile Dual-Band Dual-Polarized Antenna for Base Station Applications. , 2019, , .		0
229	Design of an Ultra-wideband UHF Scanning Phased Array with End-fire Beams. , 2019, , .		0
230	A Novel Design of Dual-Band Dual-Polarized Base Station Antenna Based on Frequency Selective Surface. , 2019, , .		0
231	Transmit Beamforming Based on 4D Antenna Arrays with Pseudo-Random Orthogonal Time Sequences. , 2019, , .		0
232	Synthesis of Sparse Linear Arrays Including Directivity via a Hybrid l1 Minimization Algorithm. , 2020, , .		0
233	An Irregular Tightly Coupled Dipole Array with Wide Scanning Angles. , 2020, , .		0
234	A criterion of the vertical spacing between fluorescent molecules in a waveguide structure. Results in Physics, 2020, 17, 103030.	4.1	0

#	ARTICLE	IF	CITATIONS
235	Characteristic Mode Analysis for Antennas with Waveport Problems. , 2021, , .		0
236	One-dimensional conformal ultra-wideband connected slot arrays with reduced scattering. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22802.	1.2	0
237	Ride comfort of heavy vehicles based on key response characteristics of multibody dynamics. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 0, , 146441932110399.	0.8	0
238	Design of 4D Irregular Tiled Arrays Based on Mixed Integer Second Order Cone Programming. , 2020, , .		0
239	Low Probability of Interception Beamforming in Single-Sideband Time-Modulated Antenna Arrays. , 2021, , .		0
240	A 9:1 Bandwidth Low-Profile Tightly Coupled Dipole Array with Compact Matching Network. , 2021, , .		0
241	Synthesis of Sparse Antenna Arrays via Iterative Convex Optimization. , 2021, , .		0
242	A Miniaturized Dual-Polarized Base Station Antenna with Stable Radiation Pattern. , 2021, , .		0
243	A Low-Scattering Conformal Phased Array Based on Resistor-Loaded Metasurface. , 2021, , .		0
244	Numerical Simulation and Modeling of Hydrogen Gas Evolution on Planar and Microwire Array Electrodes. Journal of the Electrochemical Society, 0, , .	2.9	0
245	Scanning Radiation Pattern Synthesis using Characteristic Mode of Airship Platform. , 2021, , .		0
246	An In-Band Decoupling Technique for Base Station Antennas. , 2021, , .		0
247	Development of A Multi-Band Shared-Aperture Antenna Array. , 2021, , .		0