

# Yikai Chen

## List of Publications by Citations

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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.

200  
papers

3,484  
citations

31  
h-index

50  
g-index

254  
ext. papers

4,433  
ext. citations

5.1  
avg. IF

6.01  
L-index

#	Paper	IF	Citations
200	<b>2015,</b>		227
199	Solar-Driven Reduction of 1 atm of CO <sub>2</sub> to Formate at 10% Energy-Conversion Efficiency by Use of a TiO <sub>2</sub> -Protected III <sup>V</sup> Tandem Photoanode in Conjunction with a Bipolar Membrane and a Pd/C Cathode. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 764-770	20.1	133
198	Anti-bacterial and cytotoxic properties of plasma sprayed silver-containing HA coatings. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 3603-9	4.5	120
197	A NOVEL ELECTRONIC BEAM STEERING TECHNIQUE IN TIME MODULATED ANTENNA ARRAY. <i>Progress in Electromagnetics Research</i> , <b>2009</b> , 97, 391-405	3.8	112
196	The Application of a Modified Differential Evolution Strategy to Some Array Pattern Synthesis Problems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2008</b> , 56, 1919-1927	4.9	89
195	Modeling, Simulation, and Implementation of Solar-Driven Water-Splitting Devices. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12974-12988	16.4	86
194	Electrically Small UAV Antenna Design Using Characteristic Modes. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 535-545	4.9	86
193	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. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600379	21.8	81
192	. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 1474-1477	3.8	81
191	Modeling, simulation, and fabrication of a fully integrated, acid-stable, scalable solar-driven water-splitting system. <i>ChemSusChem</i> , <b>2015</b> , 8, 544-51	8.3	73
190	Decoupling and Low-Profile Design of Dual-Band Dual-Polarized Base Station Antennas Using Frequency-Selective Surface. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 5272-5281	4.9	69
189	Silver release from silver-containing hydroxyapatite coatings. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 1892-1896	4.4	65
188	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 2442-2447	4.9	64
187	HF Band Shipboard Antenna Design Using Characteristic Modes. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 1004-1013	4.9	58
186	A quantitative analysis of the efficiency of solar-driven water-splitting device designs based on tandem photoabsorbers patterned with islands of metallic electrocatalysts. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1736-1747	35.4	55
185	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 368-374	4.9	50
184	Atomic force microscopy with nanoelectrode tips for high resolution electrochemical, nanoadhesion and nanoelectrical imaging. <i>Nanotechnology</i> , <b>2017</b> , 28, 095711	3.4	47

183	Accurate Models of Time-Invariant Beampatterns for Frequency Diverse Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 3022-3029	4.9	47
182	Modeling an integrated photoelectrolysis system sustained by water vapor. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3713	35.4	46
181	A comparison of the chemical, optical and electrocatalytic properties of water-oxidation catalysts for use in integrated solar-fuel generators. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 987-1002	35.4	43
180	Operational constraints and strategies for systems to effect the sustainable, solar-driven reduction of atmospheric CO <sub>2</sub> . <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3663-3674	35.4	43
179	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 476-480	4.9	41
178	A Novel Stacked Antenna Configuration and its Applications in Dual-Band Shared-Aperture Base Station Antenna Array Designs. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 7234-7241	4.9	41
177	Effect of TiOH formation on bioactivity of vacuum plasma sprayed titanium coating after chemical treatment. <i>Surface and Coatings Technology</i> , <b>2007</b> , 202, 494-498	4.4	39
176	Antibacterial properties of vacuum plasma sprayed titanium coatings after chemical treatment. <i>Surface and Coatings Technology</i> , <b>2009</b> , 204, 685-690	4.4	37
175	Synthesis of Reactively Controlled Antenna Arrays Using Characteristic Modes and DE Algorithm. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 385-388	3.8	36
174	Alternative surface integral equation-based characteristic mode analysis of dielectric resonator antennas. <i>IET Microwaves, Antennas and Propagation</i> , <b>2016</b> , 10, 193-201	1.6	35
173	Optical waveguide based on a polarized polydiacetylene microtube. <i>Advanced Materials</i> , <b>2014</b> , 26, 3136-41		35
172	Back focal plane imaging of directional emission from dye molecules coupled to one-dimensional photonic crystals. <i>Nanotechnology</i> , <b>2014</b> , 25, 145202	3.4	32
171	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> , <b>2015</b> , 8, 876-886	35.4	31
170	Modeling the Performance of an Integrated Photoelectrolysis System with 10 Solar Concentrators. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, F1101-F1110	3.9	31
169	Pattern Synthesis of 4-D Irregular Antenna Arrays Based on Maximum-Entropy Model. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 3048-3057	4.9	28
168	Synthesis of Uniform Amplitude Thinned Linear Phased Arrays Using the Differential Evolution Algorithm. <i>Electromagnetics</i> , <b>2007</b> , 27, 287-297	0.8	28
167	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 5353-5361	4.9	27
166	Convex Optimization of Pencil Beams Through Large-Scale 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 3453-3462	4.9	27

165	Harmonic Beamforming in Antenna Array With Time-Modulated Amplitude-Phase Weighting Technique. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 6461-6472	4.9	27
164	Practical Implementation of Wideband and Wide-Scanning Cylindrically Conformal Phased Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 5729-5733	4.9	26
163	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> , <b>2008</b> , 21, 493-506	1	26
162	Label-Free Chemical Imaging of Latent Fingerprints with Stimulated Raman Scattering Microscopy. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4468-4473	7.8	25
161	Bandwidth Enhancement of a Dual-Polarized Slot Antenna Using Characteristic Modes. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 988-992	3.8	25
160	Tamm plasmon- and surface plasmon-coupled emission from hybrid plasmonic-photonic structures. <i>Optica</i> , <b>2014</b> , 1, 407-413	8.6	25
159	Wideband Wide-Scanning Phased Array With Connected Backed Cavities and Parasitic Striplines. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 1767-1775	4.9	24
158	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 7063-7072	4.9	24
157	PeakForce Scanning Electrochemical Microscopy with Nanoelectrode Probes. <i>Microscopy Today</i> , <b>2016</b> , 24, 18-25	0.4	24
156	Characteristic Mode Formulation for Dielectric Coated Conducting Bodies. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 1248-1258	4.9	23
155	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4257-4262	4.9	23
154	Label-free pathology by spectrally sliced femtosecond stimulated Raman scattering (SRS) microscopy. <i>PLoS ONE</i> , <b>2017</b> , 12, e0178750	3.7	23
153	Improving conflicting specifications of time-modulated antenna arrays by using a multiobjective evolutionary algorithm. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2012</b> , 25, 205-215	1	22
152	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 676-680	4.9	22
151	An Improved Phase Modulation Technique Based on Four-Dimensional Arrays. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 1175-1178	3.8	21
150	. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 467-471	3.8	21
149	Surface-plasmon-coupled emission microscopy with a polarization converter. <i>Optics Letters</i> , <b>2013</b> , 38, 736-8	3	21
148	. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 378-382	3.8	21

147	Generalized Characteristic-Mode Formulation for Composite Structures With Arbitrarily MetallicDielectric Combinations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 3556-3566	4.9	20
146	Optical modulation of waveguiding in spiropyran-functionalized polydiacetylene microtube. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 15466-71	9.5	20
145	Surface integral equation based characteristic mode formulation for dielectric resonators <b>2014</b> ,		20
144	Helical Torsion Coaxial Cable for Dual-Band Shared-Aperture Antenna Array Decoupling. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 6128-6135	4.9	20
143	Identification methods of key contributing factors in crashes with high numbers of fatalities and injuries in China. <i>Traffic Injury Prevention</i> , <b>2016</b> , 17, 878-83	1.8	20
142	Modeling and Simulation of the Spatial and Light-Intensity Dependence of Product Distributions in an Integrated Photoelectrochemical CO2 Reduction System. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 273-280	20.1	19
141	Effect of driving conditions and suspension parameters on dynamic load-sharing of longitudinal-connected air suspensions. <i>Science China Technological Sciences</i> , <b>2013</b> , 56, 666-676	3.5	19
140	A Joint Optimization Approach for the Synthesis of Large 4-D Heterogeneous Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 4585-4594	4.9	19
139	Integration of 5G Rectangular MIMO Antenna Array and GSM Antenna for Dual-Band Base Station Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 63175-63187	3.5	18
138	A Study on the Application of Subarrayed Time-Modulated Arrays to MIMO Radar. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 1171-1174	3.8	18
137	Synthesis of Optimal Sum and Difference Patterns from Time Modulated Hexagonal Planar Arrays. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2008</b> , 29, 933-945		18
136	In vitro antibacterial and osteogenic properties of plasma sprayed silver-containing hydroxyapatite coating. <i>Science Bulletin</i> , <b>2009</b> , 54, 4438-4445	10.6	17
135	Dual-Band Shared-Aperture Base Station Antenna Array With Electromagnetic Transparent Antenna Elements. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 5596-5606	4.9	17
134	Back focal plane imaging of Tamm plasmons and their coupled emission. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 933-940	8.3	16
133	Effect of metal film thickness on Tamm plasmon-coupled emission. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 25523-30	3.6	16
132	Surface enhanced Raman scattering arising from plasmonic interaction between silver nano-cubes and a silver grating. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 041122	3.4	16
131	DESIGN AND ANALYSIS OF WIDEBAND PLANAR MONOPOLE ANTENNAS USING THE MULTILEVEL FAST MULTIPOLE ALGORITHM. <i>Progress in Electromagnetics Research B</i> , <b>2009</b> , 15, 95-112	0.7	16
130	In-Band Radar Cross-Section Reduction of Slot Antenna Using Characteristic Modes. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 1166-1170	3.8	16

129	Large area sub-wavelength azo-polymer gratings by waveguide modes interference lithography. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 031103	3.4	15
128	Adaptive Nulling with Time-Modulated Antenna Arrays Using a Hybrid Differential Evolution Strategy. <i>Electromagnetics</i> , <b>2010</b> , 30, 574-588	0.8	15
127	Application of Characteristic Mode Theory in HF Band Aircraft-Integrated Multiantenna System Designs. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 513-521	4.9	15
126	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 5907-5917	4.9	14
125	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> , <b>2014</b> , 59, 96-116	7.2	14
124	Fabrication of Thermoelectric Devices Using Thermal Spray: Application to Vehicle Exhaust Systems. <i>Journal of Thermal Spray Technology</i> , <b>2013</b> , 22, 577-587	2.5	14
123	A NOVEL WIDEBAND ANTENNA ARRAY WITH TIGHTLY COUPLED OCTAGONAL RING ELEMENTS. <i>Progress in Electromagnetics Research</i> , <b>2012</b> , 124, 55-70	3.8	14
122	Efficient Pencil Beam Synthesis in 4-D Antenna Arrays Using an Iterative Convex Optimization Algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 6847-6858	4.9	12
121	Excitation of Broadband Surface Plasmons with Dye Molecules. <i>Plasmonics</i> , <b>2012</b> , 7, 309-312	2.4	12
120	A Hybrid Analog-Digital Adaptive Beamforming in Time-Modulated Linear Arrays. <i>Electromagnetics</i> , <b>2010</b> , 30, 356-364	0.8	12
119	4-D Retro-Directive Antenna Arrays for Secure Communication Based on Improved Directional Modulation. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 5926-5933	4.9	12
118	Direction finding based on TMAs with reconfigurable angle-searching range and bearing accuracy. <i>Electronics Letters</i> , <b>2017</b> , 53, 130-132	1.1	11
117	. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 118-121	3.8	11
116	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 7927-7936	4.9	10
115	Design of a novel monopulse antenna system using the time-modulated antenna arrays. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2010</b> , 20, 163-169	1.5	10
114	A 3-D-Printed Multibeam Spherical Lens Antenna With Ultrawide-Angle Coverage. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2021</b> , 20, 411-415	3.8	10
113	Synthesis of large-scale non-uniformly spaced 4D arrays using an IFT method. <i>IET Microwaves, Antennas and Propagation</i> , <b>2018</b> , 12, 1973-1977	1.6	10
112	Development and field application of a multivariate statistical process control framework for health-monitoring of transportation infrastructure. <i>Transportation Research Part B: Methodological</i> , <b>2015</b> , 81, 78-102	7.2	9

111	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> , <b>2020</b> , 68, 5297-5307	4.9	9
110	Synthesis, Control, and Excitation of Characteristic Modes for Platform-Integrated Antenna Designs: A Design Philosophy.. <i>IEEE Antennas and Propagation Magazine</i> , <b>2022</b> , 2-9	1.7	9
109	In-Band Scattering Reduction for a U-Slot Patch Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2020</b> , 19, 312-316	3.8	9
108	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> , <b>2020</b> , 68, 824-837	4.9	9
107	LPI Beamforming Based on 4-D Antenna Arrays With Pseudorandom Time Modulation. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 2068-2077	4.9	9
106	Failure modes of protection layers produced by atomic layer deposition of amorphous TiO <sub>2</sub> on GaAs anodes. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4269-4279	35.4	9
105	Coupling of Fluorophores in Single Nanoapertures to Tamm Plasmon Structures. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1413-1420	3.8	9
104	Transmit Beamforming Based on 4-D Antenna Arrays for Low Probability of Intercept Systems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 3625-3634	4.9	8
103	Integrated Study of APS YSZ Coatings with Different Spray Angle. <i>Journal of Thermal Spray Technology</i> , <b>2013</b> , 22, 110-115	2.5	8
102	Synthesis of platform integrated antennas for reconfigurable radiation patterns using the theory of characteristic modes <b>2012</b> ,		8
101	Multiple Patterns from Time-Modulated Linear Antenna Arrays. <i>Electromagnetics</i> , <b>2008</b> , 28, 562-571	0.8	8
100	Applying latent class analysis to investigate rural highway single-vehicle fatal crashes in China. <i>Accident Analysis and Prevention</i> , <b>2020</b> , 148, 105840	6.1	8
99	Synthesis of Irregular Phased Arrays Subject to Constraint on Directivity via Convex Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 4235-4240	4.9	8
98	Phased Hemispherical Lens Antenna for 1-D Wide-Angle Beam Scanning. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 7617-7621	4.9	7
97	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 6098-6108	4.9	7
96	Modellierung, Simulation und Implementierung von Zellen für die solarbetriebene Wasserspaltung. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 13168-13183	3.6	7
95	Differences in Factors Affecting Various Crash Types with High Numbers of Fatalities and Injuries in China. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158559	3.7	7
94	Cross Band Mutual Coupling Reduction in Dual Band Base Station Antennas with a Novel Grid Frequency Selective Surface. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	7

93	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> , <b>2018</b> , 8, 1454	2.6	7
92	Realization of multiple orbital angular momentum modes simultaneously through four-dimensional antenna arrays. <i>Scientific Reports</i> , <b>2018</b> , 8, 149	4.9	6
91	Fast Analysis of Parallel-Plate Cylindrical Luneberg Lens Antennas Through Dyadic Green's Functions. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 4327-4337	4.1	6
90	. <i>IEEE Access</i> , <b>2019</b> , 7, 118402-118410	3.5	6
89	Thermoelectric Properties of Magnesium Silicide Deposited by Use of an Atmospheric Plasma Thermal Spray. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 2723-2730	1.9	6
88	Polymer-loaded propagating modes on a one-dimensional photonic crystal. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 061115	3.4	6
87	Model Development and Dynamic Load-Sharing Analysis of Longitudinal-Connected Air Suspensions. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , <b>2013</b> , 59, 14-24	1.3	6
86	A Ferrite-Loaded Ultra-Low Profile Ultra-Wideband Tightly Coupled Dipole Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	6
85	Mixed-Potential Integral Equation Based Characteristic Mode Analysis of Microstrip Antennas. <i>International Journal of Antennas and Propagation</i> , <b>2016</b> , 2016, 1-8	1.2	6
84	Hybrid Directional Modulation and Beamforming for Physical Layer Security Improvement Through 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 5903-5912	4.9	6
83	Extremely low-profile wideband dual-polarized microstrip antenna for micro-base-station applications. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2017</b> , 27, e21091	1.5	5
82	. <i>IEEE Access</i> , <b>2020</b> , 8, 14013-14023	3.5	5
81	2D flat Luneburg lens antenna for multibeam scanning application. <i>Electronics Letters</i> , <b>2019</b> , 55, 1317-1318	1.8	5
80	Identification of black spots on highways using fault tree analysis and vehicle safety boundaries. <i>Journal of Transportation Safety and Security</i> , <b>2021</b> , 13, 46-68	1.7	5
79	Aircraft-Integrated VHF Band Antenna Array Designs Using Characteristic Modes. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 7358-7369	4.9	4
78	Evaluation of the safety performance of highway alignments based on fault tree analysis and safety boundaries. <i>Traffic Injury Prevention</i> , <b>2018</b> , 19, 409-416	1.8	4
77	Shipboard NVIS radiation system design using the theory of characteristic modes <b>2014</b> ,		4
76	Extracting surface wave-coupled emission with subsurface dielectric gratings. <i>Optics Letters</i> , <b>2014</b> , 39, 4341-4	3	4



75	Contrast Enhancement in Fluorescence Microscope by Plasmonic Coupling. <i>Plasmonics</i> , <b>2012</b> , 7, 209-214	2.4	4
74	Adaptive nulling in time-modulated antenna arrays <b>2008</b> ,		4
73	A Self-Decoupling Method for Antenna Arrays Using High-Order Characteristic Modes. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	4
72	A Crash Severity Prediction Method Based on Improved Neural Network and Factor Analysis. <i>Discrete Dynamics in Nature and Society</i> , <b>2020</b> , 2020, 1-13	1.1	4
71	High-Directivity Optimization Technique for Irregular Arrays Combined With Maximum Entropy Model. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 3913-3923	4.9	4
70	An effective hybrid approach for the synthesis of pencil beams and shaped beams through 4D linear antenna arrays with constrained DRR. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2019</b> , 33, 584-600	1.3	4
69	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> , <b>2019</b> , 233, 3263-3278	1.4	4
68	In-Band Scattering and Radiation Tradeoff of Broadband Phased Arrays Based on Scattering-Matrix Approach. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	4
67	Synthesis of Sparse Antenna Arrays Subject to Constraint on Directivity via Iterative Convex Optimization. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2021</b> , 20, 1498-1502	3.8	4
66	Radar Cross Section Reduction of Wideband Vivaldi Antenna Arrays with Array-Level Scattering Cancellation. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2022</b> , 1-1	4.9	4
65	A compact wideband dual-polarized linear array with hybrid structure and resistive loadings. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2019</b> , 29, e21736	1.5	3
64	Characteristic mode synthesis of omni-directional radiation patterns for electrically small UAV <b>2015</b> ,		3
63	The role of ground plane plays in wideband phased array antenna <b>2010</b> ,		3
62	A Novel Method for Maximum Directivity Synthesis of Irregular Phased Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2022</b> , 1-1	4.9	3
61	A Low-Profile Triple-Band Shared-Aperture Antenna Array for 5G Base Station Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	3
60	Dual-polarized stacked microstrip antenna with trident-shaped baluns for MIMO array development. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2021</b> , 31, e22736	1.5	3
59	A crash risk identification method for freeway segments with horizontal curvature based on real-time vehicle kinetic response. <i>Accident Analysis and Prevention</i> , <b>2021</b> , 150, 105911	6.1	3
58	A Novel Printed Dual-Log-Periodic Array Antenna for UHF Near-Field RFID Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 7418-7423	4.9	3

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56	Pattern Synthesis of a Time-modulated Vivaldi Linear Array with MOEA/D Algorithm <b>2019</b> ,		2
55	Characteristic Mode Theory for PEC Bodies <b>2015</b> , 37-97		2
54	Characteristic mode analysis of PEC bodies using combined field integral equation <b>2015</b> ,		2
53	Dark-field imaging by active polymer slab waveguide. <i>Applied Optics</i> , <b>2013</b> , 52, 8117-21	1.7	2
52	Progress on Searching Optimal Thermal Spray Parameters for Magnesium Silicide. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1490, 173-177		2
51	Near-field spectrum retrieving through non-degenerate coupling emission. <i>Nanophotonics</i> , <b>2019</b> , 9, 235-243	2.3	2
50	Spatiotemporal analysis of crash severity on rural highway: A case study in Anhui, China.. <i>Accident Analysis and Prevention</i> , <b>2021</b> , 165, 106538	6.1	2
49	Novel low profile ultra-wideband capacitance loaded log-periodic monopole array with reduced transverse dimension. <i>IET Microwaves, Antennas and Propagation</i> , <b>2019</b> , 13, 1443-1449	1.6	2
48	DOA Estimation via Sparse Signal Recovery in 4-D Linear Antenna Arrays With Optimized Time Sequences. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 771-783	6.8	2
47	A Cylindrical Lens Antenna With Extremely Flat Beams. <i>IEEE Access</i> , <b>2019</b> , 7, 156675-156685	3.5	2
46	Design of A Low-profile and Low Scattering Wideband Planar Phased Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	2
45	A low-profile wide-scanning fully metallic lens antenna for 5G communication. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2021</b> , 31, e22584	1.5	2
44	A Cylindrical Luneberg Lens Antenna with Extremely Wide Fan-Beam <b>2018</b> ,		2
43	Design and analysis of an amplitude-phase weighting module for harmonic beamforming in time-modulated antenna arrays. <i>AEU - International Journal of Electronics and Communications</i> , <b>2021</b> , 138, 153835	2.8	2
42	An equivalent method of multi-beam laser interference lithography for 2D plasmonic crystals fabrication. <i>Journal of Optics (United Kingdom)</i> , <b>2015</b> , 17, 085001	1.7	1
41	HF band aircraft integrated multi-antenna system designs using characteristic modes <b>2017</b> ,		1
40	<b>2017</b> ,		1

39	Characteristic Mode Theory for Antennas in Multilayered Medium <b>2015</b> , 99-141		1
38	Characteristic Mode Theory for N-Port Networks <b>2015</b> , 187-220		1
37	LSM Protective Coatings on Stainless Steel as Interconnects for Solid Oxide Fuel Cells. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1644, 1		1
36	Dynamically generating a large-area confined optical field with subwavelength feature size. <i>Applied Optics</i> , <b>2014</b> , 53, 6091-5	1.7	1
35	A novel beam scanning technique in time modulated linear arrays. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , <b>2009</b> ,		1
34	Efficient analysis of wireless communication antennas using an accurate [Z] matrix interpolation technique. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2010</b> , 20, 382-390	1.5	1
33	An Electromagnetic-Transparent Cascade Comb Dipole Antenna for Multi-Band Shared-Aperture Base Station Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	1
32	A Novel In-Band Scattering Cancellation Technique for Vivaldi Antenna Array <b>2021</b> ,		1
31	In-Band Scattering Cancellation Techniques for Vivaldi Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	1
30	A wide-scanning ellipsoid lens antenna fed by phased array antenna. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2020</b> , 30, e22127	1.5	1
29	2-D Wide-Scanning Flat Luneburg Lens Antenna for 5G Communication <b>2020</b> ,		1
28	Fluorescence molecular localization in submicronic depth through waveguide mode coupled emission. <i>Optics Communications</i> , <b>2020</b> , 475, 126290	2	1
27	Improving Physical Layer Security Technique Based on 4-D Antenna Arrays with Pre-Modulation <b>2020</b> ,		1
26	A Thinned Irregular Array Synthesis Approach Based on Benders Decomposition. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 3875-3885	4.9	1
25	A miniaturized wideband dual-polarized linear array with balanced antipodal Vivaldi antenna <b>2016</b> ,		1
24	Time-Modulated Beamforming in Antenna Arrays with Multiple Sub-Branch RF Switches <b>2019</b> ,		1
23	<b>2019</b> ,		1
22	Black Box Method for The Radiation and Scattering Optimization of TCDA <b>2018</b> ,		1

21	AMillimeter-Wave Phased Array Fed Biconvex Lens Antenna <b>2018</b> ,		1
20	Stable directional emission in active optical waveguides shielding external environmental influences. <i>Applied Optics</i> , <b>2021</b> , 60, 6155-6161	1.7	1
19	An active, ultra-wideband dual-polarized tightly coupled dipole subarray for satellite communication. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2021</b> , 31, e22849	1.5	1
18	Exploring relationships between microscopic kinetic parameters of tires under normal driving conditions, road characteristics and accident types. <i>Journal of Safety Research</i> , <b>2021</b> , 78, 80-95	4	1
17	Directional Modulation in Time-Modulated Array With a Novel Pseudorandom Ascending Phase Time Sequence. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2022</b> , 1-1	4.1	1
16	Ultra-Low Scattering Design of Wideband Conformal Arrays Based on Optimally Loaded Resistors. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2022</b> , 1-1	4.9	1
15	A Vector Modulation Approach for Secure Communications Based on 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	0
14	An Irregular Tiled Array Technique for Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	0
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