

Yikai Chen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4216329/yikai-chen-publications-by-year.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Wideband Receive Beamforming Based on 4-D Antenna Arrays With Post-Modulation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022 , 1-1	3.8	
199	A Novel Method for Maximum Directivity Synthesis of Irregular Phased Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	3
198	Synthesis, Control, and Excitation of Characteristic Modes for Platform-Integrated Antenna Designs: A Design Philosophy.. <i>IEEE Antennas and Propagation Magazine</i> , 2022 , 2-9	1.7	9
197	Radar Cross Section Reduction of Wideband Vivaldi Antenna Arrays with Array-Level Scattering Cancellation. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	4
196	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	5.8	0
195	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	
194	Directional Modulation in Time-Modulated Array With a Novel Pseudorandom Ascending Phase Time Sequence. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1	4.1	1
193	Ultra-Low Scattering Design of Wideband Conformal Arrays Based on Optimally Loaded Resistors. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	1
192	Integrated Radar and Communication Design with Low Probability of Intercept Based on 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	
191	An Electromagnetic-Transparent Cascade Comb Dipole Antenna for Multi-Band Shared-Aperture Base Station Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	1
190	A Novel In-Band Scattering Cancellation Technique for Vivaldi Antenna Array 2021 ,		1
189	A Low-Profile Triple-Band Shared-Aperture Antenna Array for 5G Base Station Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	3
188	A Vector Modulation Approach for Secure Communications Based on 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	0
187	A Self-Decoupling Method for Antenna Arrays Using High-Order Characteristic Modes. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	4
186	In-Band Scattering Cancellation Techniques for Vivaldi Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	1
185	An Irregular Tiled Array Technique for Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	0
184	Spatiotemporal analysis of crash severity on rural highway: A case study in Anhui, China.. <i>Accident Analysis and Prevention</i> , 2021 , 165, 106538	6.1	2

183	A Ferrite-Loaded Ultra-Low Profile Ultra-Wideband Tightly Coupled Dipole Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	6
182	Service quality evaluation of bus lines based on improved momentum back-propagation neural network model: A study of Hangzhou in China. <i>IET Intelligent Transport Systems</i> , 2021 , 15, 958	2.4	
181	Dual-polarized stacked microstrip antenna with trident-shaped baluns for MIMO array development. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021 , 31, e22736	1.5	3
180	A Thinned Irregular Array Synthesis Approach Based on Benders Decomposition. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 3875-3885	4.9	1
179	One-dimensional conformal ultra-wideband connected slot arrays with reduced scattering. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021 , 31, e22802	1.5	
178	Synthesis of Irregular Phased Arrays Subject to Constraint on Directivity via Convex Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 4235-4240	4.9	8
177	High-Directivity Optimization Technique for Irregular Arrays Combined With Maximum Entropy Model. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 3913-3923	4.9	4
176	Identification of black spots on highways using fault tree analysis and vehicle safety boundaries. <i>Journal of Transportation Safety and Security</i> , 2021 , 13, 46-68	1.7	5
175	Design of A Low-profile and Low Scattering Wideband Planar Phased Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	2
174	Fast analysis of scattering from metallic-dielectric composite large antenna arrays using characteristic modes. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2021 , 34, e2862	1	
173	In-Band Scattering and Radiation Tradeoff of Broadband Phased Arrays Based on Scattering-Matrix Approach. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	4
172	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> , 2021 , 1-1	4.9	7
171	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 , 1-1	4.9	
170	A low-profile wide-scanning fully metallic lens antenna for 5G communication. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021 , 31, e22584	1.5	2
169	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	6.1	3
168	A 3-D-Printed Multibeam Spherical Lens Antenna With Ultrawide-Angle Coverage. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 411-415	3.8	10
167	Stable directional emission in active optical waveguides shielding external environmental influences. <i>Applied Optics</i> , 2021 , 60, 6155-6161	1.7	1
166	An active, ultra-wideband dual-polarized tightly coupled dipole subarray for satellite communication. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021 , 31, e22849	1.5	1

165	Synthesis of Sparse Antenna Arrays Subject to Constraint on Directivity via Iterative Convex Optimization. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 1498-1502	3.8	4
164	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> , 2021 , 138, 153835	2.8	2
163	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	4	1
162	Dual-Band Shared-Aperture Base Station Antenna Array With Electromagnetic Transparent Antenna Elements. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5596-5606	4.9	17
161	Hybrid Directional Modulation and Beamforming for Physical Layer Security Improvement Through 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5903-5912	4.9	6
160	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 7927-7936	4.9	10
159	A criterion of the vertical spacing between fluorescent molecules in a waveguide structure. <i>Results in Physics</i> , 2020 , 17, 103030	3.7	
158	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	4.9	9
157	Aircraft-Integrated VHF Band Antenna Array Designs Using Characteristic Modes. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 7358-7369	4.9	4
156	Transmit Beamforming Based on 4-D Antenna Arrays for Low Probability of Intercept Systems. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 3625-3634	4.9	8
155	. <i>IEEE Access</i> , 2020 , 8, 14013-14023	3.5	5
154	Integration of 5G Rectangular MIMO Antenna Array and GSM Antenna for Dual-Band Base Station Applications. <i>IEEE Access</i> , 2020 , 8, 63175-63187	3.5	18
153	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 6098-6108	4.9	7
152	INVESTIGATING FACTORS AFFECTING ROAD FREIGHT OVERLOADING THROUGH THE INTEGRATED USE OF BLR AND CART: A CASE STUDY IN CHINA. <i>Transport</i> , 2020 , 35, 236-246	1.4	0
151	A wide-scanning ellipsoid lens antenna fed by phased array antenna. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020 , 30, e22127	1.5	1
150	In-Band Scattering Reduction for a U-Slot Patch Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 312-316	3.8	9
149	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	4.9	9
148	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

147	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	6.8	2
146	Failure modes of protection layers produced by atomic layer deposition of amorphous TiO ₂ on GaAs anodes. <i>Energy and Environmental Science</i> , 2020 , 13, 4269-4279	35.4	9
145	2-D Wide-Scanning Flat Luneburg Lens Antenna for 5G Communication 2020 ,		1
144	Applying latent class analysis to investigate rural highway single-vehicle fatal crashes in China. <i>Accident Analysis and Prevention</i> , 2020 , 148, 105840	6.1	8
143	Fluorescence molecular localization in submicronic depth through waveguide mode coupled emission. <i>Optics Communications</i> , 2020 , 475, 126290	2	1
142	Helical Torsion Coaxial Cable for Dual-Band Shared-Aperture Antenna Array Decoupling. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 6128-6135	4.9	20
141	A Crash Severity Prediction Method Based on Improved Neural Network and Factor Analysis. <i>Discrete Dynamics in Nature and Society</i> , 2020 , 2020, 1-13	1.1	4
140	Improving Physical Layer Security Technique Based on 4-D Antenna Arrays with Pre-Modulation 2020 ,		1
139	Phased Hemispherical Lens Antenna for 1-D Wide-Angle Beam Scanning. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 7617-7621	4.9	7
138	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 467-471	3.8	21
137	Pattern Synthesis of 4-D Irregular Antenna Arrays Based on Maximum-Entropy Model. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 3048-3057	4.9	28
136	Accurate Models of Time-Invariant Beampatterns for Frequency Diverse Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 3022-3029	4.9	47
135	. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 5353-5361	4.9	27
134	. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 4257-4262	4.9	23
133	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	1.5	3
132	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> , 2019 , 67, 7234-7241	4.9	41
131	. <i>IEEE Access</i> , 2019 , 7, 118402-118410	3.5	6
130	Pattern Synthesis of a Time-modulated Vivaldi Linear Array with MOEA/D Algorithm 2019 ,		2

129	Practical Implementation of Wideband and Wide-Scanning Cylindrically Conformal Phased Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 5729-5733	4.9	26
128	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> , 2019 , 67, 5272-5281	4.9	69
127	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	4.9	12
126	Harmonic Beamforming in Antenna Array With Time-Modulated Amplitude-Phase Weighting Technique. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 6461-6472	4.9	27
125	Near-field spectrum retrieving through non-degenerate coupling emission. <i>Nanophotonics</i> , 2019 , 9, 235-243	4.3	2
124	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	1.6	2
123	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> , 2019 , 33, 584-600	1.3	4
122	Time-Modulated Beamforming in Antenna Arrays with Multiple Sub-Branch RF Switches 2019 ,		1
121	A Cylindrical Lens Antenna With Extremely Flat Beams. <i>IEEE Access</i> , 2019 , 7, 156675-156685	3.5	2
120	2D flat Luneburg lens antenna for multibeam scanning application. <i>Electronics Letters</i> , 2019 , 55, 1317-1318	1.8	5
119	2019 ,		1
118	Coupling of Fluorophores in Single Nanoapertures to Tamm Plasmon Structures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1413-1420	3.8	9
117	. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 676-680	4.9	22
116	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 378-382	3.8	21
115	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	1.4	4
114	Application of Characteristic Mode Theory in HF Band Aircraft-Integrated Multiantenna System Designs. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 513-521	4.9	15
113	Bandwidth Enhancement of a Dual-Polarized Slot Antenna Using Characteristic Modes. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 988-992	3.8	25
112	Wideband Wide-Scanning Phased Array With Connected Backed Cavities and Parasitic Striplines. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1767-1775	4.9	24

111	. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 476-480	4.9	41
110	Evaluation of the safety performance of highway alignments based on fault tree analysis and safety boundaries. <i>Traffic Injury Prevention</i> , 2018 , 19, 409-416	1.8	4
109	Realization of multiple orbital angular momentum modes simultaneously through four-dimensional antenna arrays. <i>Scientific Reports</i> , 2018 , 8, 149	4.9	6
108	Convex Optimization of Pencil Beams Through Large-Scale 4-D Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 3453-3462	4.9	27
107	Generalized Characteristic-Mode Formulation for Composite Structures With Arbitrarily MetallicDielectric Combinations. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 3556-3566	4.9	20
106	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 118-121	3.8	11
105	Fast Analysis of Parallel-Plate Cylindrical Luneberg Lens Antennas Through Dyadic Green's Functions. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 4327-4337	4.1	6
104	. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 5907-5917	4.9	14
103	Synthesis of large-scale non-uniformly spaced 4D arrays using an IFT method. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 1973-1977	1.6	10
102	Black Box Method for The Radiation and Scattering Optimization of TCDA 2018 ,		1
101	A Cylindrical Luneberg Lens Antenna with Extremely Wide Fan-Beam 2018 ,		2
100	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	4.9	12
99	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	2.6	7
98	A Novel Printed Dual-Log-Periodic Array Antenna for UHF Near-Field RFID Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 7418-7423	4.9	3
97	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 2414-2418	3.8	3
96	AMillimeter-Wave Phased Array Fed Biconvex Lens Antenna 2018 ,		1
95	In-Band Radar Cross-Section Reduction of Slot Antenna Using Characteristic Modes. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1166-1170	3.8	16
94	Atomic force microscopy with nanoelectrode tips for high resolution electrochemical, nanoadhesion and nanoelectrical imaging. <i>Nanotechnology</i> , 2017 , 28, 095711	3.4	47

93	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> , 2017 , 10, 987-1002	35.4	43
92	Characteristic Mode Formulation for Dielectric Coated Conducting Bodies. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 1248-1258	4.9	23
91	Extremely low-profile wideband dual-polarized microstrip antenna for micro-base-station applications. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2017 , 27, e21091	1.5	5
90	Direction finding based on TMAs with reconfigurable angle-searching range and bearing accuracy. <i>Electronics Letters</i> , 2017 , 53, 130-132	1.1	11
89	An Improved Phase Modulation Technique Based on Four-Dimensional Arrays. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 1175-1178	3.8	21
88	Label-Free Chemical Imaging of Latent Fingerprints with Stimulated Raman Scattering Microscopy. <i>Analytical Chemistry</i> , 2017 , 89, 4468-4473	7.8	25
87	Label-free pathology by spectrally sliced femtosecond stimulated Raman scattering (SRS) microscopy. <i>PLoS ONE</i> , 2017 , 12, e0178750	3.7	23
86	. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 7063-7072	4.9	24
85	A Joint Optimization Approach for the Synthesis of Large 4-D Heterogeneous Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 4585-4594	4.9	19
84	HF band aircraft integrated multi-antenna system designs using characteristic modes 2017 ,		1
83	A Study on the Application of Subarrayed Time-Modulated Arrays to MIMO Radar. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 1171-1174	3.8	18
82	. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 368-374	4.9	50
81	2017 ,		1
80	Modellierung, Simulation und Implementierung von Zellen für die solargetriebene Wasserspaltung. <i>Angewandte Chemie</i> , 2016 , 128, 13168-13183	3.6	7
79	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. <i>ACS Energy Letters</i> , 2016 , 1, 764-770	20.1	133
78	Modeling, Simulation, and Implementation of Solar-Driven Water-Splitting Devices. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12974-12988	16.4	86
77	Modeling and Simulation of the Spatial and Light-Intensity Dependence of Product Distributions in an Integrated Photoelectrochemical CO ₂ Reduction System. <i>ACS Energy Letters</i> , 2016 , 1, 273-280	20.1	19
76	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> , 2016 , 6, 1600379	21.8	81

75	Alternative surface integral equation-based characteristic mode analysis of dielectric resonator antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 193-201	1.6	35
74	Mixed-Potential Integral Equation Based Characteristic Mode Analysis of Microstrip Antennas. <i>International Journal of Antennas and Propagation</i> , 2016 , 2016, 1-8	1.2	6
73	Differences in Factors Affecting Various Crash Types with High Numbers of Fatalities and Injuries in China. <i>PLoS ONE</i> , 2016 , 11, e0158559	3.7	7
72	PeakForce Scanning Electrochemical Microscopy with Nanoelectrode Probes. <i>Microscopy Today</i> , 2016 , 24, 18-25	0.4	24
71	A miniaturized wideband dual-polarized linear array with balanced antipodal Vivaldi antenna 2016 ,		1
70	Identification methods of key contributing factors in crashes with high numbers of fatalities and injuries in China. <i>Traffic Injury Prevention</i> , 2016 , 17, 878-83	1.8	20
69	An equivalent method of multi-beam laser interference lithography for 2D plasmonic crystals fabrication. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 085001	1.7	1
68	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> , 2015 , 8, 1736-1747	35.4	55
67	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	7.2	9
66	Operational constraints and strategies for systems to effect the sustainable, solar-driven reduction of atmospheric CO ₂ . <i>Energy and Environmental Science</i> , 2015 , 8, 3663-3674	35.4	43
65	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	35.4	31
64	Characteristic Mode Theory for Dielectric Resonators 2015 , 143-185		
63	Characteristic Mode Theory for Antennas in Multilayered Medium 2015 , 99-141		1
62	Characteristic Mode Theory for N-Port Networks 2015 , 187-220		1
61	Platform-Integrated Antenna System Design Using Characteristic Modes 2015 , 221-265		
60	Characteristic Mode Theory for PEC Bodies 2015 , 37-97		2
59	2015 ,		227
58	Characteristic mode analysis of PEC bodies using combined field integral equation 2015 ,		2

57	Characteristic mode synthesis of omni-directional radiation patterns for electrically small UAV 2015 ,		3
56	Modeling, simulation, and fabrication of a fully integrated, acid-stable, scalable solar-driven water-splitting system. <i>ChemSusChem</i> , 2015 , 8, 544-51	8.3	73
55	HF Band Shipboard Antenna Design Using Characteristic Modes. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 1004-1013	4.9	58
54	Electrically Small UAV Antenna Design Using Characteristic Modes. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 535-545	4.9	86
53	Back focal plane imaging of Tamm plasmons and their coupled emission. <i>Laser and Photonics Reviews</i> , 2014 , 8, 933-940	8.3	16
52	Effect of metal film thickness on Tamm plasmon-coupled emission. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25523-30	3.6	16
51	Back focal plane imaging of directional emission from dye molecules coupled to one-dimensional photonic crystals. <i>Nanotechnology</i> , 2014 , 25, 145202	3.4	32
50	Optical modulation of waveguiding in spiropyran-functionalized polydiacetylene microtube. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15466-71	9.5	20
49	Shipboard NVIS radiation system design using the theory of characteristic modes 2014 ,		4
48	Modeling the Performance of an Integrated Photoelectrolysis System with 10 Solar Concentrators. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1101-F1110	3.9	31
47	Extracting surface wave-coupled emission with subsurface dielectric gratings. <i>Optics Letters</i> , 2014 , 39, 4341-4	3	4
46	Thermoelectric Properties of Magnesium Silicide Deposited by Use of an Atmospheric Plasma Thermal Spray. <i>Journal of Electronic Materials</i> , 2014 , 43, 2723-2730	1.9	6
45	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	7.2	14
44	LSM Protective Coatings on Stainless Steel as Interconnects for Solid Oxide Fuel Cells. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1644, 1		1
43	Tamm plasmon- and surface plasmon-coupled emission from hybrid plasmonic-photonic structures. <i>Optica</i> , 2014 , 1, 407-413	8.6	25
42	Dynamically generating a large-area confined optical field with subwavelength feature size. <i>Applied Optics</i> , 2014 , 53, 6091-5	1.7	1
41	Polymer-loaded propagating modes on a one-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2014 , 104, 061115	3.4	6
40	Optical waveguide based on a polarized polydiacetylene microtube. <i>Advanced Materials</i> , 2014 , 26, 3136-41		35

39	Surface integral equation based characteristic mode formulation for dielectric resonators 2014 ,		20
38	Surface enhanced Raman scattering arising from plasmonic interaction between silver nano-cubes and a silver grating. <i>Applied Physics Letters</i> , 2013 , 103, 041122	3.4	16
37	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	3.5	19
36	Fabrication of Thermoelectric Devices Using Thermal Spray: Application to Vehicle Exhaust Systems. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 577-587	2.5	14
35	Integrated Study of APS YSZ Coatings with Different Spray Angle. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 110-115	2.5	8
34	Modeling an integrated photoelectrolysis system sustained by water vapor. <i>Energy and Environmental Science</i> , 2013 , 6, 3713	35.4	46
33	Large area sub-wavelength azo-polymer gratings by waveguide modes interference lithography. <i>Applied Physics Letters</i> , 2013 , 102, 031103	3.4	15
32	Surface-plasmon-coupled emission microscopy with a polarization converter. <i>Optics Letters</i> , 2013 , 38, 736-8	3	21
31	Dark-field imaging by active polymer slab waveguide. <i>Applied Optics</i> , 2013 , 52, 8117-21	1.7	2
30	Model Development and Dynamic Load-Sharing Analysis of Longitudinal-Connected Air Suspensions. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2013 , 59, 14-24	1.3	6
29	Progress on Searching Optimal Thermal Spray Parameters for Magnesium Silicide. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1490, 173-177		2
28	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 1474-1477	3.8	81
27	Synthesis of platform integrated antennas for reconfigurable radiation patterns using the theory of characteristic modes 2012 ,		8
26	Synthesis of Reactively Controlled Antenna Arrays Using Characteristic Modes and DE Algorithm. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 385-388	3.8	36
25	A NOVEL WIDEBAND ANTENNA ARRAY WITH TIGHTLY COUPLED OCTAGONAL RING ELEMENTS. <i>Progress in Electromagnetics Research</i> , 2012 , 124, 55-70	3.8	14
24	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> , 2012 , 25, 205-215	1	22
23	Contrast Enhancement in Fluorescence Microscope by Plasmonic Coupling. <i>Plasmonics</i> , 2012 , 7, 209-214	2.4	4
22	Excitation of Broadband Surface Plasmons with Dye Molecules. <i>Plasmonics</i> , 2012 , 7, 309-312	2.4	12

21	A Hybrid Analog-Digital Adaptive Beamforming in Time-Modulated Linear Arrays. <i>Electromagnetics</i> , 2010 , 30, 356-364	0.8	12
20	. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2442-2447	4.9	64
19	The role of ground plane plays in wideband phased array antenna 2010 ,		3
18	Adaptive Nulling with Time-Modulated Antenna Arrays Using a Hybrid Differential Evolution Strategy. <i>Electromagnetics</i> , 2010 , 30, 574-588	0.8	15
17	Silver release from silver-containing hydroxyapatite coatings. <i>Surface and Coatings Technology</i> , 2010 , 205, 1892-1896	4.4	65
16	Design of a novel monopulse antenna system using the time-modulated antenna arrays. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2010 , 20, 163-169	1.5	10
15	Efficient analysis of wireless communication antennas using an accurate [Z] matrix interpolation technique. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2010 , 20, 382-390	1.5	1
14	A novel beam scanning technique in time modulated linear arrays. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , 2009 ,		1
13	In vitro antibacterial and osteogenic properties of plasma sprayed silver-containing hydroxyapatite coating. <i>Science Bulletin</i> , 2009 , 54, 4438-4445	10.6	17
12	Antibacterial properties of vacuum plasma sprayed titanium coatings after chemical treatment. <i>Surface and Coatings Technology</i> , 2009 , 204, 685-690	4.4	37
11	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	0.7	16
10	A NOVEL ELECTRONIC BEAM STEERING TECHNIQUE IN TIME MODULATED ANTENNA ARRAY. <i>Progress in Electromagnetics Research</i> , 2009 , 97, 391-405	3.8	112
9	Adaptive nulling in time-modulated antenna arrays 2008 ,		4
8	The Application of a Modified Differential Evolution Strategy to Some Array Pattern Synthesis Problems. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 1919-1927	4.9	89
7	Multiple Patterns from Time-Modulated Linear Antenna Arrays. <i>Electromagnetics</i> , 2008 , 28, 562-571	0.8	8
6	Anti-bacterial and cytotoxic properties of plasma sprayed silver-containing HA coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 3603-9	4.5	120
5	Synthesis of Optimal Sum and Difference Patterns from Time Modulated Hexagonal Planar Arrays. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2008 , 29, 933-945		18
4	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	26

- | | | | |
|---|---|-----|----|
| 3 | Synthesis of Uniform Amplitude Thinned Linear Phased Arrays Using the Differential Evolution Algorithm. <i>Electromagnetics</i> , 2007 , 27, 287-297 | 0.8 | 28 |
| 2 | Effect of TiO ₂ formation on bioactivity of vacuum plasma sprayed titanium coating after chemical treatment. <i>Surface and Coatings Technology</i> , 2007 , 202, 494-498 | 4.4 | 39 |
| 1 | Ride comfort of heavy vehicles based on key response characteristics of multibody dynamics. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 146441932110399 | 0.8 | 10 |