

Xianling Liang

List of Publications by Year in descending order

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168
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168
times ranked

1621
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Efficiency Transmissive Programmable Metasurface for Multimode OAM Generation. <i>Advanced Optical Materials</i> , 2020, 8, 2000570.	3.6	163
2	Water metamaterial for ultra-broadband and wide-angle absorption. <i>Optics Express</i> , 2018, 26, 5052.	1.7	92
3	Direction Finding by Time-Modulated Array With Harmonic Characteristic Analysis. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015, 14, 642-645.	2.4	91
4	Design of a Broadband Metasurface Luneburg Lens for Full-Angle Operation. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 2442-2451.	3.1	89
5	A Broadband Dual Circularly Polarized Patch Antenna With Wide Beamwidth. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014, 13, 1457-1460.	2.4	78
6	Truly All-Dielectric Ultrabroadband Metamaterial Absorber: Water-Based and Ground-Free. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 536-540.	2.4	73
7	Sideband Radiation Level Suppression in Time-Modulated Array by Nonuniform Period Modulation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015, 14, 606-609.	2.4	64
8	Direction Finding by Time-Modulated Linear Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 3642-3652.	3.1	60
9	Multiband coherent perfect absorption in a water-based metasurface. <i>Optics Express</i> , 2017, 25, 15737.	1.7	56
10	Dual-Circularly Polarized Conical-Beam Microstrip Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015, 14, 482-485.	2.4	50
11	Space-Division Multiple Access Based on Time-Modulated Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015, 14, 610-613.	2.4	47
12	Pattern Reconfigurable Antenna Applying Spoof Surface Plasmon Polaritons for Wide Angle Beam Steering. <i>IEEE Access</i> , 2019, 7, 15444-15451.	2.6	47
13	A Three-Way Reconfigurable Power Divider/Combiner. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 986-998.	2.9	46
14	Varactor Loaded Pattern Reconfigurable Patch Antenna With Shorting Pins. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 6267-6277.	3.1	44
15	A Dual-Wideband Dual-Polarized Aperture-Shared Patch Antenna With High Isolation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 735-738.	2.4	43
16	Compact Design of Triple-Band Circularly Polarized Quadrifilar Helix Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014, 13, 380-383.	2.4	42
17	Generation of OAM Radio Waves with Three Polarizations Using Circular Horn Antenna Array. <i>International Journal of Antennas and Propagation</i> , 2015, 2015, 1-11.	0.7	41
18	Broadband Dual-Polarized Waveguide Slot Filtenna Array With Low Cross Polarization and High Efficiency. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 151-159.	3.1	37

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19	Optical Transparent Antenna Array Integrated With Solar Cell. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 457-461.	2.4	37
20	Parallel Calibration Method for Phased Array With Harmonic Characteristic Analysis. IEEE Transactions on Antennas and Propagation, 2014, 62, 5029-5036.	3.1	35
21	Numerical Study of the Near-Field and Far-Field Properties of Active Open Cylindrical Coated Nanoparticle Antennas. IEEE Photonics Journal, 2011, 3, 1093-1110.	1.0	34
22	An N-Way Reconfigurable Power Divider. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4122-4137.	2.9	34
23	Rectangular Grating Waveguide Slot Array Antenna for SATCOM Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 3869-3880.	3.1	34
24	MoS ₂ Broadband Coherent Perfect Absorber for Terahertz Waves. IEEE Photonics Journal, 2016, 8, 1-7.	1.0	31
25	Analysis and Experiments on Reflection and Refraction of Orbital Angular Momentum Waves. IEEE Transactions on Antennas and Propagation, 2019, 67, 2085-2094.	3.1	31
26	Switched Multibeam Circular Array With a Reconfigurable Network. IEEE Transactions on Antennas and Propagation, 2016, 64, 3228-3233.	3.1	26
27	Experiments of Orbital Angular Momentum Phase Properties for Long-Distance Transmission. IEEE Access, 2019, 7, 62689-62694.	2.6	26
28	Efficiency Improvement of Time Modulated Array With Reconfigurable Power Divider/Combiner. IEEE Transactions on Antennas and Propagation, 2017, 65, 4027-4037.	3.1	25
29	A Cylindrically Conformal Array With Enhanced Axial Radiation. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1653-1656.	2.4	24
30	Wideband Circularly Polarized Antenna With Dual-Mode Operation. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 767-770.	2.4	24
31	A Compact Waveguide Slot Filtering Antenna Based on Mushroom-Type Surface. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1823-1827.	2.4	24
32	Polarization-Insensitive Metasurface Lens for Efficient Generation of Convergent OAM Beams. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2696-2700.	2.4	23
33	Wideband Dual-Polarized Binary Coding Antenna With Wide Beamwidth and Its Array for Millimeter-Wave Applications. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 636-640.	2.4	23
34	Reconfigurable Unequal Power Divider With a High Dividing Ratio. IEEE Microwave and Wireless Components Letters, 2015, 25, 514-516.	2.0	20
35	High-Accuracy DOA Estimation Based on Time-Modulated Array With Long and Short Baselines. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1391-1395.	2.4	20
36	Direction Finding of Linear Frequency Modulation Signal With Time-Modulated Array. IEEE Transactions on Antennas and Propagation, 2019, 67, 2841-2846.	3.1	19

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37	Direction Finding of Linear Frequency Modulation Signal in Time Modulated Array With Pulse Compression. IEEE Transactions on Antennas and Propagation, 2020, 68, 509-520.	3.1	18
38	A K -Band Broadband Circularly Polarized Slot Antenna Based on L-Shaped Waveguide Cavity. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1606-1610.	2.4	18
39	Ruggedized Planar Monopole Antenna With a Null-Filled Shaped Beam. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 933-936.	2.4	17
40	Multuser Communication by Electromagnetic Vortex Based on Time-Modulated Array. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 282-286.	2.4	17
41	A Low-Profile Wideband Dual-Polarized Antenna Based on an Improved HIS and Its Broad-Angle Beam-Scanning Array. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 383-387.	2.4	17
42	Perforated dielectric antenna reflectarray for OAM generation. , 2015, , .		16
43	Phase Mode Analysis of Radio Beams Carrying Orbital Angular Momentum. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1127-1130.	2.4	16
44	The Ultra-Compact ELF Magneto-Mechanical Transmission Antenna With the Speed Modulated EM Signal Based on Three-Phase Induction Motor. IEEE Transactions on Antennas and Propagation, 2021, 69, 5286-5296.	3.1	16
45	Rotman Lens-Fed Fabry-Perot Resonator Antennas for Generating Converged Multi-Mode OAM Beams. IEEE Access, 2019, 7, 105768-105775.	2.6	15
46	A Novel Analytical Method for Multi-Frequency Transmission Line Transformer. IEEE Microwave and Wireless Components Letters, 2016, 26, 556-558.	2.0	14
47	Multifrequency Transformer With Arbitrary Frequency and Real Impedance Transform Ratio. IEEE Microwave and Wireless Components Letters, 2017, 27, 785-787.	2.0	13
48	Design of a horn lens antenna for OAM generation. , 2015, , .		12
49	Metal-Loaded Seawater Antenna With High Radiation Efficiency and Wideband Characteristics. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1671-1674.	2.4	12
50	A Low-Profile, Directional, Ultrawideband Antenna. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 255-259.	2.4	12
51	Direction Finding Based on Time-Modulated Array With Multiharmonic Analysis. IEEE Transactions on Antennas and Propagation, 2020, 68, 5753-5758.	3.1	12
52	Dual-Port Phase Antenna and Its Application in 1-D Arrays to 2-D Scanning. IEEE Transactions on Antennas and Propagation, 2021, 69, 7508-7520.	3.1	12
53	A Broadband Dual-Polarized Solar Cell Phased Array Antenna. IEEE Transactions on Antennas and Propagation, 2022, 70, 353-364.	3.1	12
54	Studies of nanometer antennas incorporating gain material using CST. , 2011, , .		11

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55	Detailed performance characteristics of vertically polarized, cylindrical, active coated nano-particle antennas. Radio Science, 2012, 47, .	0.8	10
56	Active cylindrical coated nano-particle antennas: polarization-dependent scattering properties. Journal of Electromagnetic Waves and Applications, 2013, 27, 1392-1406.	1.0	10
57	A Multifixture Full-Wave De-Embedding Method for Characterizing One-Port Devices. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3894-3910.	2.9	10
58	A High-Efficiency Broadband Omnidirectional UHF Patch Antenna Applying Surface Plasmon Polaritons for Handheld Terminals. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 283-286.	2.4	10
59	Theory Analysis and Realization of Single-/Dual-Port Excitation in Beam-Forming Network. IEEE Transactions on Antennas and Propagation, 2018, 66, 4912-4917.	3.1	10
60	Circularly-Polarized Shaped Pattern Planar Antenna for Aerial Platforms. IEEE Access, 2020, 8, 7466-7472.	2.6	10
61	Dual Circularly Polarized Omnidirectional Antenna with Slot Array on Coaxial Cylinder. International Journal of Antennas and Propagation, 2015, 2015, 1-7.	0.7	9
62	De-Embedding Based on EM Simulation and Measurement: A Hybrid Method. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5019-5034.	2.9	9
63	A Generalized Approach for Multifrequency Transmission Line Transformer With Frequency-Dependent Complex Source and Load. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3603-3616.	2.9	9
64	A method of accurate co-simulation by considering lumped port setting in EM simulator. , 2015, , .		8
65	Dual CP Polarization Diversity and Space Diversity Antennas Enabled by a Compact T-Shaped Feed Structure. IEEE Access, 2019, 7, 96284-96296.	2.6	8
66	Study on the Rotated SSPPs Structure and Its Applications in Antenna. IEEE Transactions on Antennas and Propagation, 2021, 69, 4475-4487.	3.1	8
67	A tri-band bandstop filter with sharp rejection and controllable bandstop frequencies. , 2015, , .		7
68	An UHF Tree-Like Biconical Antenna With Both Conical and Horizontal Omnidirectional Radiations. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 187-189.	2.4	7
69	Compact Wideband Bandstop Filter With Directly Controlled Rejection. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2282-2286.	2.2	7
70	Beamforming method with periodical amplitude modulation array. , 2013, , .		6
71	Broadband antenna array for SAR applications. , 2014, , .		6
72	A compact omnidirectional CP coaxial slots antenna. , 2015, , .		6

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73	High-sensitivity OAM phase gradient detection based on time-modulated harmonic characteristic analysis. Electronics Letters, 2017, 53, 812-814.	0.5	6
74	Realizing orbital angular momentum (OAM) beam with small divergence angle by luneberg lens. , 2017, , .		6
75	Instantaneous Gain Optimization in Time Modulated Array Using Reconfigurable Power Divide/Combiner. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 530-533.	2.4	6
76	Photoluminescence Revealed Higher Order Plasmonic Resonance Modes and Their Unexpected Frequency Blue Shifts in Silver-Coated Silica Nanoparticle Antennas. Applied Sciences (Switzerland), 2019, 9, 3000.	1.3	6
77	A COMPACT ENDFIRE RADIATION ANTENNA BASED ON SPOOF SURFACE PLASMON POLARITONS IN WIDE BANDWIDTH. Progress in Electromagnetics Research M, 2019, 79, 147-157.	0.5	6
78	Improved Mid-Field calibration technology for linear array. , 2011, , .		5
79	Design of a passive multifaceted phased array for hemispherical coverage. , 2012, , .		5
80	A compact and high-selectivity tri-band bandpass filter based on symmetrical stub-loaded square ring resonator. Microwave and Optical Technology Letters, 2020, 62, 630-636.	0.9	5
81	Ruggedized Surface-Mount Omnidirectional Antenna for Supersonic Aerial Platforms. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1439-1442.	2.4	5
82	Subwavelength plasmonic nanoantenna as a Plasmonic Induced Polarization Rotator (PI-PR). Scientific Reports, 2020, 10, 2809.	1.6	5
83	Realization of Multimode OAM Beams with Almost the Same Divergence Angles. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	0.7	5
84	An improved mixed-integer multi-objective particle swarm optimization and its application in antenna array design. , 2013, , .		4
85	Multiple Antenna Selection Schemes with a RF Reconfigurable Power Combiner. Wireless Personal Communications, 2015, 85, 1071-1080.	1.8	4
86	Direction finding by time modulated linear array. , 2017, , .		4
87	A Design Approach for Compact Wideband Transformer With Frequency-Dependent Complex Loads and Its Application to Wilkinson Power Divider. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1611-1624.	2.9	4
88	Design of a Quadrifilar helical antenna with high phase center stability. , 2012, , .		3
89	A low profile CP antenna based on novel hexagon grids optimization model. , 2015, , .		3
90	An ultra-wideband cross-dipole antenna with wide beam for dual-polarization applications. , 2015, , .		3

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91	Improvement on the multi-mode beams divergence of oam array by using fabry-perot cavity. , 2017, , .		3
92	A circular truncated cone slot antenna with circular polarized conical beam. , 2017, , .		3
93	Spoof Surface Plasmon Polaritons Pattern Reconfigurable Antenna for Wide-Angle Coverage. , 2018, , .		3
94	Polarization-insensitive metasurfaces for generating converging vortex beams carrying orbital angular momentum. , 2018, , .		3
95	Grating ridged waveguide V-shaped slot array antenna for SATCOM applications. Electronics Letters, 2019, 55, 170-172.	0.5	3
96	A Wideband Circularly Polarized Leaky-wave Antenna. , 2022, , .		3
97	A novel dual-band circularly-polarized wide-beam quadrifilar helix antenna. , 2012, , .		2
98	Wide bandwidth dual-frequency dual-polarized microstrip array antenna for Ku-band applications. , 2012, , .		2
99	Design of Arbitrarily Shaped Planar Microstrip Antenna Arrays with Improved Efficiency. International Journal of Antennas and Propagation, 2013, 2013, 1-10.	0.7	2
100	A novel SIW horn antenna with high gain and high efficiency. , 2014, , .		2
101	A UHF Broadband Spider-Shaped Monopole Antenna. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 782-785.	2.4	2
102	A compact ultra-wideband power divider with high isolation. , 2014, , .		2
103	Wideband direction-finding based on time-modulated antenna array. , 2015, , .		2
104	Broadband Dual Circularly Polarized Magnetolectric Dipole Antenna Fed by a Miniaturized Six-Branch Hybrid Coupler. International Journal of Antennas and Propagation, 2016, 2016, 1-10.	0.7	2
105	The study on the antenna with metasurface. , 2016, , .		2
106	A t-shaped feed structure to enhance the performance of a polarization diversity antenna. , 2017, , .		2
107	Wideband wide-slot antenna array with protrusion for wide-angle scanning. , 2017, , .		2
108	Anomalous refraction in an all-dielectric gradient metasurface. , 2017, , .		2

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109	1-Bit Reconfigurable Unit Cell for Programable Transmit-Array Lens in C-Band. , 2018, , .		2
110	A Metamaterial Broadwall Waveguide Slot Filtering Antenna for SAR Applications. , 2018, , .		2
111	Core-Shell Nano-Antenna Configurations for Array Formation with More Stability Having Conventional and Non-Conventional Directivity and Propagation Behavior. Nanomaterials, 2021, 11, 99.	1.9	2
112	An approach to achieve directional low-profile antenna of quintuple stable pattern band by utilising dipole with compound concave corrugated reflector. IET Microwaves, Antennas and Propagation, 2021, 15, 629-643.	0.7	2
113	Analysis of Asymmetric Modulating Pulse on SSB-TMA. , 2021, , .		2
114	m-Shaped SSPPs Structure to Low Profile Vertically Polarized Antenna With High Gain to Be Conformal With Vehicle Shell. IEEE Transactions on Vehicular Technology, 2022, 71, 3807-3820.	3.9	2
115	Design of Rectangular Waveguide Slot Antenna for Anti-interference Applications. , 2021, , .		2
116	Compact DVB-T printed monopole antenna. , 2010, , .		1
117	An ultra-wideband dielectric resonator antenna with pattern reconfiguration. , 2011, , .		1
118	A 60-GHz wideband dielectric resonator antenna with inclined radiation. , 2012, , .		1
119	Studies of a nanometer antenna combined with open and closed cylindrical active coated nano particles. , 2012, , .		1
120	A Modified Lumped-Network Finite-Difference Time-Domain Method. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 326-329.	2.4	1
121	Study on low profile cp antenna by combining discrete grid model and parameter optimization. , 2014, , .		1
122	Research on planar antenna arrays. , 2014, , .		1
123	A three-port reconfigurable network for muti-polarization antenna applications. , 2017, , .		1
124	Minimizing gain roll-off in rotman lens antenna using phase gradient transmission lines. , 2017, , .		1
125	On semi-classical optical reponse of metallic silver and silver coated silica nanoparticles. , 2017, , .		1
126	Synthesizing orbital angular momentum beam with small divergence angle. , 2017, , .		1

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127	A Miniaturized Low Profile Linear-polarized UWB Antenna with Unidirectional Radiation. , 2018, , .		1
128	A Compact Reconfigurable coaxial slot antenna. , 2018, , .		1
129	Novel Beam Scanning Antenna System Fed by Reconfigurable Beamforming Network. , 2018, , .		1
130	Filtering Waveguide Slot Array Antenna for Ku-Band Applications. , 2018, , .		1
131	Multi-user Communication by Electromagnetic Vortex Based on Time Modulated Array. , 2019, , .		1
132	A Novel Radar Based on Two-Element Time-Modulated Array. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 524-528.	1.4	1
133	A Rectangular Waveguide Slot Antenna with Dual-band Rejection. , 2021, , .		1
134	A K-band Circularly-Polarized Slot Antenna Based on L-shaped Waveguide Cavity. , 2021, , .		1
135	Low frequency transmission of mechanical antenna across the interface of air-water. , 2021, , .		1
136	A General Method for Modeling Packaged Diode Spanning Multiple Cells in FDTD. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 392-395.	2.4	0
137	Study on improved circularly polarized microstrip antennas with rotationally symmetric slots. , 2013, , .		0
138	A novel self-adaptive anti-doppler time modulated antenna array system. , 2013, , .		0
139	A method to widen the scattering bandwidth of closed cylindrical active coated nano particles. , 2013, , .		0
140	Improved coupled ultra-wideband dual-polarized antenna array with corrugated ground. , 2014, , .		0
141	Design of a 600 MHz non-Foster dipole. , 2014, , .		0
142	A novel tunable narrow bandstop filters with C-shaped slot notch structure. , 2014, , .		0
143	Active toroid nano antenna excited by an electric Hertzian dipole. , 2014, , .		0
144	A novel aperture sharing multi-functional MIMO antenna. , 2015, , .		0

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145	Designs and Performance Characteristics of Coated Nanotoroid Antennas. International Journal of Antennas and Propagation, 2015, 2015, 1-11.	0.7	0
146	Single-layer single-feed bidirectional radiated circularly polarized \tilde{G} -shaped microstrip-line antenna. , 2015, , .		0
147	Study on the active medium coated cylindrical nano particle antenna. , 2016, , .		0
148	A dual-mode orbital angular momentum antenna array. , 2016, , .		0
149	A novel low-profile circularly polarized UHF crossed dipole antenna. , 2017, , .		0
150	A compact microstrip filtering power divider made of novel coupled resonators. , 2017, , .		0
151	A Single-Pole-Double-Throw switch based on the ring structure. , 2017, , .		0
152	Active toroid nano antenna excited by an circular polarized plane wave. , 2017, , .		0
153	Direction finding using time modulated array. , 2017, , .		0
154	Compact two-layer rotman lens-fed circularly polarized antenna array. , 2017, , .		0
155	Realization of various OAM divergence angles based on fabry-perot antenna design. , 2017, , .		0
156	A wideband circularly-polarized crossed dipole antenna. , 2017, , .		0
157	Coherent control of absorption in water based metamaterial. , 2017, , .		0
158	Broadband Polarization Reconfigurable Microstrip Antenna Array. , 2017, , .		0
159	Wave-front manipulation in a substrate covered inhomogeneous holey waveguide. , 2018, , .		0
160	Generation of OAM Radio Waves in C-Band by Using Hexagonal-Lattice Transmit-Array Lens. , 2018, , .		0
161	Generation of Dual-Polarized Dual-Mode OAM Radio Beams Through Transmit-Array Lens. , 2018, , .		0
162	A Broadband Circularly-Polarized Waveguide Slot Cavity Array. , 2021, , .		0

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163	Corrections to “Multiuser Communication by Electromagnetic Vortex Based on Time-Modulated Array”. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1047-1047.	2.4	0
164	A K-band Dual-polarized Stepped Horn Filter. , 2021, , .		0
165	A Rectangular Waveguide Slot Filtering Linear Array Antenna. , 2021, , .		0
166	A Compensation Method of Nonideal Modulation Pulse for Direction Finding With Time-Modulated Array. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1577-1581.	2.4	0
167	A Versatile Slot Antenna Fed by a 2 × 2 Reconfigurable Network. , 2022, , .		0
168	Design of a Wide-beam Waveguide Slot Antenna for Anti-interference Applications. , 2022, , .		0