Reconfigurable Antennas: Design and Applications

Proceedings of the IEEE

103, 424-437

DOI: 10.1109/jproc.2015.2396000

Citation Report

#	Article	IF	Citations
1	Frequency reconfigurable antenna using active capacitors. , 2015, , .		0
2	An Introduction to Reconfigurable Systems. Proceedings of the IEEE, 2015, 103, 291-317.	21.3	39
3	Compact Antenna with Frequency Reconfigurability for GPS/LTE/WWAN Mobile Handset Applications. International Journal of Antennas and Propagation, 2016, 2016, 1-8.	1.2	1
4	SYNTHESIS OF SPARSE OR THINNED LINEAR AND PLANAR ARRAYS GENERATING RECONFIGURABLE MULTIPLE REAL PATTERNS BY ITERATIVE LINEAR PROGRAMMING. Progress in Electromagnetics Research, 2016, 155, 27-38.	4.4	21
5	Compact Reconfigurable Antenna with an Omnidirectional Pattern and Four Directional Patterns for Wireless Sensor Systems. Sensors, 2016, 16, 552.	3.8	6
6	Experimental evaluation of a reconfigurable antenna system for blind interference alignment. , 2016, , .		10
7	Dual port MIMO Half-Shaped Cubical Parasitic PIFA design for pattern and frequency reconfiguration applied in mobile terminals. , 2016, , .		5
8	A robust conscious model for enhancing cognitive radio quality of service. , 2016, , .		8
9	A novel multiband frequency reconfigurable PIFA antenna. , 2016, , .		3
10	Mechanically reconfigurable antenna based on novel metasurface for frequency tuning-range improvement. , 2016, , .		2
11	A versatile reconfigurable antenna for Cognitive Radio. , 2016, , .		9
12	A radiation pattern reconfigurable antenna for WLAN access. , 2016, , .		4
13	Compact frequency tunable filtenna with wide continuous tuning range using capacitively loaded folded arms open loop resonator for interweave cognitive radio applications. , 2016, , .		1
14	New compact tunable filter-antenna using varactor loaded ring resonator for cognitive radio front end system. , 2016, , .		2
15	Design of miniaturized reconfigurable slot antenna using varactor diodes for cognitive radio systems. , 2016, , .		6
16	Multifunctional Reconfigurable/Deployable Antennas for Space Applications. , 2016, , .		1
17	W/V-band reconfigurable array using highly anisotropic liquid crystals. , 2016, , .		1
18	Reconfigurable filtenna in UHF band for cognitive radio application. , 2016, , .		3

#	Article	IF	Citations
19	Dual-port reconfigurable planar antennas for diversity and duplexing applications. , 2016, , .		1
20	Optically induced conductivity in silicon: An active control technique for antennas. Microwave and Optical Technology Letters, 2016, 58, 994-998.	1.4	2
21	Design of frequency tunable CPW-Fed UWB antenna using varactor diodes for cognitive radio and future software defined radio. , 2016, , .		2
22	Dynamic control of asymmetric electromagnetic wave transmission by active chiral metamaterial. Scientific Reports, 2017, 7, 42802.	3.3	68
23	Pattern Reconfigurable Antenna Based on Morphing Bistable Composite Laminates. IEEE Transactions on Antennas and Propagation, 2017, 65, 2196-2207.	5.1	43
24	Design of rotatable metasurface microstrip antenna with reconfigurable polarization. , 2017, , .		4
25	Optically Controlled Reconfigurable Antenna Array for mm-Wave Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2142-2145.	4.0	69
26	Isolation enhancement in MIMO reconfigurable PIFAs for mobile devices. , 2017, , .		3
27	Frequency-Agile Beam-Switchable Antenna. IEEE Transactions on Antennas and Propagation, 2017, 65, 3819-3826.	5.1	37
28	Throughput optimization in multi-hop wireless networks with reconfigurable antennas. , 2017, , .		5
29	Structured Non-Uniformly Spaced Rectangular Antenna Array Design for FD-MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 3252-3266.	9.2	21
30	On Media-Based Modulation Using RF Mirrors. IEEE Transactions on Vehicular Technology, 2017, 66, 4967-4983.	6.3	118
31	An Optically Tunable Cavity-Backed Slot Antenna. IEEE Transactions on Antennas and Propagation, 2017, 65, 6134-6139.	5.1	7
32	Transmit antenna selection for massive MIMO: A knapsack problem formulation. , 2017, , .		7
33	Mechanically reconfigurable slotted-waveguide antenna array for 5G networks. , 2017, , .		9
34	A Planar Antenna With Voltage-Controlled Frequency Tuning Based on Few-Layer Graphene. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2380-2383.	4.0	69
35	Microstrip Patch Array Antenna With Reconfigurable Omnidirectional and Directional Patterns Using Bistable Composite Laminates. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2485-2488.	4.0	16
36	Pattern-Reconfigurable Printed Dipole Antenna Using Loaded Parasitic Elements. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1151-1154.	4.0	42

#	Article	IF	Citations
37	Microfluidic frequency tunable three-dimensional printed antenna. , 2017, , .		5
38	Theory of Exceptional Points of Degeneracy in Uniform Coupled Waveguides and Balance of Gain and Loss. IEEE Transactions on Antennas and Propagation, 2017, 65, 5289-5302.	5.1	48
39	Physically reconfigurable antennas: Concepts and automation. , 2017, , .		10
40	Photonicsâ€assisted wireless link based on mmâ€wave reconfigurable antennas. IET Microwaves, Antennas and Propagation, 2017, 11, 2071-2076.	1.4	7
41	A digitally tuned reconfigurable patch antenna for IoT devices. , 2017, , .		9
42	Graphene-based tunable microstrip attenuators and patch antenna. , 2017, , .		4
43	Dual-port 28 GHz pattern reconfigurable quadruple parasitic IFA design for MIMO 5G mobile terminal. , 2017, , .		1
44	Modelling of reconfigurable antenna using graph techniques. , 2017, , .		0
45	An adaptive reconfigurable antenna for cognitive radio system. , 2017, , .		1
46	Investigation of Sphere Decoder and Channel Tracking Algorithms for Media-Based Modulation over Time-Selective Channels. Wireless Communications and Mobile Computing, 2017, 2017, 1-11.	1.2	1
47	Graphene loaded frequency reconfigurable metal antenna. , 2017, , .		9
48	Single-carrier media-based modulation in ISI channels. , 2017, , .		2
49	RADIATION PATTERN RECONFIGURABLE MICROSTRIP PATCH ANTENNA USING DUAL DELAY LINE. Jurnal Teknologi (Sciences and Engineering), 2017, 80, .	0.4	0
50	Network-In-a-Box: A Survey About On-Demand Flexible Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 2407-2428.	39.4	21
51	An Antenna System With a Voice-Controlled Personalized Switchable Radiation Coverage. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 693-696.	4.0	3
52	A Multiband Compact Reconfigurable PIFA Based on Nested Slots. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 331-334.	4.0	45
53	Combination of MIMO Antennas for Handheld Devices [Wireless Corner]. IEEE Antennas and Propagation Magazine, 2018, 60, 118-131.	1.4	30
54	Design of compact frequency agile filter-antenna using reconfigurable ring resonator bandpass filter for future cognitive radios. International Journal of Microwave and Wireless Technologies, 2018, 10, 487-496.	1.9	8

#	Article	IF	Citations
55	Aligning the Light Without Channel State Information for Visible Light Communications. IEEE Journal on Selected Areas in Communications, 2018, 36, 91-105.	14.0	20
56	A Tip-Extending Soft Robot Enables Reconfigurable and Deployable Antennas. IEEE Robotics and Automation Letters, 2018, 3, 949-956.	5.1	66
57	Reconfigurable Linear/Circular Polarization Rectangular Waveguide Filtenna. IEEE Transactions on Antennas and Propagation, 2018, 66, 9-15.	5.1	30
58	Performance Analysis of Media-Based Modulation With Imperfect Channel State Information. IEEE Transactions on Vehicular Technology, 2018, 67, 4192-4207.	6.3	20
59	Distributed decision making policy for frequency band selection boosting RF energy harvesting rate in wireless sensor nodes. Wireless Networks, 2018, 24, 3189-3203.	3.0	3
60	Frequency Reconfigurable Antenna for Deca-Band 5â€†G/LTE/WWAN Mobile Terminal Applications. Frequenz, 2018, 72, 167-172.	0.9	0
61	Learning-by-examples techniques as applied to electromagnetics. Journal of Electromagnetic Waves and Applications, 2018, 32, 516-541.	1.6	118
62	A Review: Techniques and Methodologies Adopted for Reconfigurable Antennas. , 2018, , .		8
63	Design of a Compact Zeroth-Order Resonance Antenna with Frequency Reconfigurability. , 2018, , .		0
64	A Miniaturized Reconfigurable UHF Antenna. , 2018, , .		2
65	Flexible Reconfigurable I-shaped Folded Slot Antenna for Wireless Devices. , 2018, , .		1
66	Fluid Switch for Radiation Pattern Reconfigurable Antenna. , 2018, , .		1
67	Design of Compact Polarization Reconfigurable Monopole Antenna. , 2018, , .		4
68	Frequency and Band Reconfigurable Circularly Polarized Square Ring Slot Monopole Antenna. , 2018, , .		0
69	Dual Band Pattern Reconfigurable MIMO Antenna System Design for 5G Wireless Applications. , 2018, , .		2
70	Full Duplex and Pattern Reconfigurable System Antenna Design for 5G Wireless Communications Systems Using a Quadrature 3 dB Coupler. , 2018, , .		0
71	A Frequency-Reconfigurable Water-Loaded Planar Monopole Antenna. , 2018, , .		5
72	A Metamaterial based Multiband Frequency Reconfigurable Antenna for Wireless Applications. , 2018, , .		9

#	Article	IF	Citations
73	E-Textile Origami Dipole Antennas With Graded Embroidery for Adaptive RF Performance. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2218-2222.	4.0	34
74	A Circular-Polarization Reconfigurable Meng-Shaped Patch Antenna. IEEE Access, 2018, 6, 51419-51428.	4.2	48
75	FERROFLUID ACTUATION BASED FREQUENCY RECONFIGURABLE PATCH ANTENNA. Progress in Electromagnetics Research Letters, 2018, 79, 71-77.	0.7	1
76	Beam-Scanning Microstrip Quasi-Yagiâ€“Uda Antenna Based on Hybrid Metal-Graphene Materials. IEEE Photonics Technology Letters, 2018, 30, 1127-1130.	2.5	35
77	An Electrically Actuated Liquid-Metal Gain-Reconfigurable Antenna. International Journal of Antennas and Propagation, 2018, 2018, 1-7.	1.2	4
78	Multifunctional reconfigurable antennas for cognitive radars. , 2018, , .		6
79	A Low-Profile Frequency Reconfigurable Grid-Slotted Patch Antenna. IEEE Access, 2018, 6, 36305-36312.	4.2	46
80	Frequency-Reconfigurable Dipole Antenna Using Liquid-Metal Pixels. International Journal of Antennas and Propagation, 2018, 2018, 1-6.	1.2	11
81	A Robust Snap-On Button Solution for Reconfigurable Wearable Textile Antennas. IEEE Transactions on Antennas and Propagation, 2018, 66, 4541-4551.	5.1	46
82	Helical actuation on a soft inflated robot body. , 2018, , .		31
83	Compact liquid crystal based phase shifter with integrated bias tees. , 2018, , .		1
84	A stretchable smart and highly efficient radio frequency antenna on low cost substrate. Microwave and Optical Technology Letters, 2018, 60, 1798-1803.	1.4	10
85	Frequency reconfigurable patch antenna with bias tee for wireless LAN applications. IET Microwaves, Antennas and Propagation, 2018, 12, 2248-2254.	1.4	16
86	Parallel aggregated MAB framework for source selection in multi-antenna RF harvesting circuit. , 2018, , .		1
87	Novel dual band patch antenna With Gap coupled composite right/left-handed transmission line. International Journal of Microwave and Wireless Technologies, 2019, 11, 87-93.	1.9	1
88	A New Design Method for Frequency- Reconfigurable Antennas Using Multiple Tuning Components. IEEE Transactions on Antennas and Propagation, 2019, 67, 7285-7295.	5.1	15
89	Media-Based Modulation for Future Wireless Systems: A Tutorial. IEEE Wireless Communications, 2019, 26, 160-166.	9.0	54
90	Radiation control of microstrip patch antenna by using electromagnetic band gap. AEU - International Journal of Electronics and Communications, 2019, 110, 152835.	2.9	14

#	Article	IF	Citations
91	Online Reconfigurable Antenna State Selection based on Thompson Sampling. , 2019, , .		10
92	Fast Reconfigurable Antenna State Selection with Hierarchical Thompson Sampling. , 2019, , .		12
93	A Multistate Frequency Reconfigurable Monopole Antenna Using Fluidic Channels. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 856-860.	4.0	53
95	Investigation on Frequency Reconfigurability of a Microstrip Patch Antenna Using a Ni-Ti Shape Memory Alloy for an Automatic Fire Sprinkler System. Journal of Electronic Materials, 2019, 48, 5906-5918.	2.2	2
96	Synthesizing Unequally Spaced Pattern-Reconfigurable Linear Arrays With Minimum Interspacing Control. IEEE Access, 2019, 7, 58893-58900.	4.2	7
97	A compact reconfigurable slotted microstrip patch antenna using pin diode for wireless applications. Journal of Physics: Conference Series, 2019, 1228, 012074.	0.4	4
98	Responsive, 3D Electronics Enabled by Liquid Crystal Elastomer Substrates. ACS Applied Materials & Interfaces, 2019, 11, 19506-19513.	8.0	38
99	A Low-Profile and Stacked Patch Antenna for Pattern-Reconfigurable Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 4830-4835.	5.1	28
100	A reconfigurable solid-state plasma dipole antenna based on SPiN diodes. Microelectronic Engineering, 2019, 214, 55-59.	2.4	3
101	A Wideband-to-Narrowband Rectangular Dielectric Resonator Antenna Integrated With Tunable Bandpass Filter. IEEE Access, 2019, 7, 61251-61258.	4.2	18
102	Multi-band Frequency Reconfigurable Metamaterial Antenna Design. Lecture Notes in Electrical Engineering, 2019, , 425-431.	0.4	0
103	Shorting Pin Switchable Frequency Reconfigurable Antenna For WLAN/WiMAX Applications. , 2019, , .		4
104	A Novel Frequency Reconfigurable Patch Antenna for WLAN Applications. , 2019, , .		2
105	The Hexa-Band Antenna with Reconfigurable Pattern. , 2019, , .		0
106	Design and Implementation of Frequency Reconfigurable Antenna for Wireless Applications. , 2019, , .		3
107	Frequency Reconfigurable Hexagonal Shaped Patch Antenna for WLAN Applications. , 2019, , .		0
108	Frequency Reconfigurable Antenna Using Double Phase-Shifted Feed. , 2019, , .		2
109	Reconfigurable Antenna Design with Air Substrate for S and C bands. , 2019, , .		0

#	Article	IF	Citations
110	Reconfigurable Antenna Design with Frequency, Polarization and Pattern diversity. , 2019, , .		0
111	Field Programmable Gate Array Applicationsâ€"A Scientometric Review. Computation, 2019, 7, 63.	2.0	46
112	Practical application of small antennas in hardware platforms. IET Microwaves, Antennas and Propagation, 2019, 13, 1883-1888.	1.4	1
113	Pattern Reconfigurable Dielectric Resonator Antenna Actuated by Shorted Parasitic Elements. , 2019, , .		1
114	Frequency Reconfigurable Elliptically Polarized Slotted Diagonally Trimmed Patch Antenna. , 2019, , .		2
115	Origami-Enabled Frequency Reconfigurable Dipole Antenna. , 2019, , .		4
116	MoM-GEC Modeling of Gap Discontinuity for The Optimization of PIN Diode Dimension Used in Frequency Reconfigurable Antenna. , 2019, , .		2
117	Comparative analysis of Reconfigurable Patch Antenna Array for different Liquid Crystal Substrates. , 2019, , .		5
118	Magnetodielectric Materials in Antenna Design: Exploring the Potentials for Reconfigurability. IEEE Antennas and Propagation Magazine, 2019, 61, 29-40.	1.4	26
119	Performance enhancement of graphene plasmonic nanoantennas for THz communication. IET Microwaves, Antennas and Propagation, 2019, 13, 71-75.	1.4	29
120	Multibeam and Beam Scanning With Modulated Metasurfaces. IEEE Transactions on Antennas and Propagation, 2020, 68, 1273-1281.	5.1	46
121	CRLB based mode selection and enhanced DOA estimation for multifunctional reconfigurable arrays. Physical Communication, 2020, 38, 100894.	2.1	1
122	Compact planar frequency reconfigurable multipleâ€inputâ€multipleâ€output antenna with pattern and polarization diversity characteristics for WiFi and WiMAX standards. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22121.	1.2	5
123	Analog Precoding Using Highly Reconfigurable Antennas. IEEE Wireless Communications Letters, 2020, 9, 648-652.	5.0	5
124	DTC-Enabled Frequency-Tunable Inverted-F Antenna for IoT Applications. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 307-311.	4.0	38
125	Quantum mechanical modeling and validation of photoconductive switches for RF and antenna applications. Microwave and Optical Technology Letters, 2020, 62, 1423-1430.	1.4	2
126	3-D Printed Microfluidics Channelizing Liquid Metal for Multipolarization Reconfigurable Extended E-Shaped Patch Antenna. IEEE Transactions on Antennas and Propagation, 2020, 68, 6867-6878.	5.1	21
127	Four-Element Beam Switching Antenna for Compact IoT Devices. , 2020, , .		3

#	Article	IF	Citations
128	Reconfigurable Quad-Band Antenna for Wireless Communication. Journal of Electrical Engineering and Technology, 2020, 15, 2239-2249.	2.0	2
129	Design and Analysis of Frequency Reconfigurable Equilateral Triangular Microstrip Patch Antenna. , 2020, , .		1
130	Broadband Frequency Reconfigurable Antenna Using Capacitive Loading for K-band Applications. , 2020, , .		1
131	A Compact Reconfigurable UWB Antenna For Short-Range Wireless Applications. , 2020, , .		0
132	Multiband Reconfigurable Antenna for Wireless Applications. , 2020, , .		4
133	Isolation enhanced MIMO PIFA system with multiple reconfiguration techniques. IET Microwaves, Antennas and Propagation, 2020, 14, 835-850.	1.4	4
134	INSET-FEED FREQUENCY RECONFIGURABLE COMPACT E-SHAPE PATCH WITH DGS. Progress in Electromagnetics Research C, 2020, 101, 119-132.	0.9	3
135	Review of Reconfigurable Antennas for Future Wireless Communication. , 2020, , .		5
136	A Compact Grounded Asymmetric Coplanar Strip-Fed Flexible Multiband Reconfigurable Antenna for Wireless Applications. IEEE Access, 2020, 8, 194497-194507.	4.2	21
137	Magnetoactuated Reconfigurable Antennas on Hard-Magnetic Soft Substrates and E-Threads. IEEE Transactions on Antennas and Propagation, 2020, 68, 5882-5892.	5.1	7
138	Two element MIMO antenna with frequency reconfigurable characteristics utilizing RF MEMS for 5G applications. Journal of Electromagnetic Waves and Applications, 2020, 34, 1210-1224.	1.6	23
139	Frequency reconfigurable antenna based on commercial graphene nanoplatelets. Electronics Letters, 2020, 56, 421-424.	1.0	4
140	The Design of a Reconfigurable Slot Antenna Printed on Glass for Wearable Applications. IEEE Access, 2020, 8, 95417-95423.	4.2	15
141	Radiation Pattern and Polarization Reconfigurable Antenna Using Dielectric Liquid. IEEE Transactions on Antennas and Propagation, 2020, 68, 8174-8179.	5.1	60
142	Cognitive Radar Target Detection and Tracking With Multifunctional Reconfigurable Antennas. IEEE Aerospace and Electronic Systems Magazine, 2020, 35, 64-76.	1.3	6
143	Design, optimization and analysis of reconfigurable antenna using RF MEMS switch. Microsystem Technologies, 2020, 26, 2829-2837.	2.0	12
144	Electromagnetic modelling of multiband frequency reconfigurable antenna for wireless communications. Journal of Electromagnetic Waves and Applications, 2020, 34, 634-654.	1.6	2
145	Graphite-based Microstrip Feeding Patch Antenna Along with Different Patches and Substrate. , 2020, , .		0

#	Article	IF	Citations
146	Massive MIMO toward 5G. Journal of Electromagnetic Waves and Applications, 2020, 34, 1091-1094.	1.6	6
147	Reconfigurable frequency and steerable beam of monopole antenna based on graphene pads. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22156.	1.2	6
148	Design of a Frequency Reconfigurable Broadband THz Antenna Based on the Vanadium Dioxide. Plasmonics, 2020, 15, 1035-1041.	3.4	14
149	A Review on Reconfigurable Liquid Dielectric Antennas. Materials, 2020, 13, 1863.	2.9	32
150	Polar nano-clusters in nominally paraelectric ceramics demonstrating high microwave tunability for wireless communication. Journal of the European Ceramic Society, 2020, 40, 3996-4003.	5.7	25
151	A wideband graphene coated dielectric resonator antenna with circular polarization generation technique for THz applications. Superlattices and Microstructures, 2021, 150, 106754.	3.1	20
152	Synthesis of Sparse Planar Arrays With Multiple Patterns by the Generalized Matrix Enhancement and Matrix Pencil. IEEE Transactions on Antennas and Propagation, 2021, 69, 869-881.	5.1	19
153	A Four-Element Antenna Array System With 15 Reconfigurable Radiation Patterns. IEEE Access, 2021, 9, 108579-108585.	4.2	1
154	A Frequency-Reconfigurable Wearable Textile Antenna With One-Octave Tuning Range. IEEE Transactions on Antennas and Propagation, 2021, 69, 8080-8089.	5.1	33
156	A Compact Dual-Band Reconfigurable Filtering Antenna Using PIN Diode. Lecture Notes in Networks and Systems, 2021, , 505-514.	0.7	0
157	A Compact Active Ka-Band Filtenna for CubeSats. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2095-2099.	4.0	8
158	Liquid-Based Reconfigurable Antenna Technology: Recent Developments, Challenges and Future. Sensors, 2021, 21, 827.	3.8	9
159	Frequency Reconfigurable Antenna for Portable Wireless Applications. Computers, Materials and Continua, 2021, 68, 3015-3027.	1.9	13
160	Online Learning-Based Reconfigurable Antenna Mode Selection Exploiting Channel Correlation. IEEE Transactions on Wireless Communications, 2021, 20, 6820-6834.	9.2	5
161	Embedded Design of Compact Broadband Omnidirectional Antenna With Quad-Polarization Diversity. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 18-22.	4.0	4
162	Frequency Reconfigurable Antenna for Multi Standard Wireless and Mobile Communication Systems. Computers, Materials and Continua, 2021, 68, 2563-2578.	1.9	10
163	A frequency reconfigurable microstrip antenna based on graphene in Terahertz Regime. Optik, 2021, 228, 166201.	2.9	26
164	Frequency Reconfigurable elliptical microstrip patch antenna using resonator, partial removal in the ground, and PIN diode for L and C band applications. Journal of Physics: Conference Series, 2021, 1804, 012183.	0.4	4

#	Article	IF	Citations
165	A pattern reconfigurable graphene-based Yagi-Uda antenna with TM01Î´ mode generation for THz applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 5325-5338.	2.2	13
166	Printed Chipless Antenna as Flexible Temperature Sensor. IEEE Internet of Things Journal, 2021, 8, 5101-5110.	8.7	70
167	A Ka-band pattern-reconfigurable microstrip antenna enabled by PIN diodes with accurate extraction of equivalent circuit parameters. Journal Physics D: Applied Physics, 2021, 54, 215303.	2.8	3
169	Switched-Beam Graphene Plasmonic Nanoantenna in the Terahertz Wave Region. Plasmonics, 2021, 16, 1855-1864.	3.4	13
170	Design and Simulation of Graphene Based Antenna for Radiation Pattern. , 2021, , .		5
171	Reconfigurable Antennas for Advanced Wireless Communications: A Review. Wireless Personal Communications, 2021, 120, 2711-2771.	2.7	19
172	Design and Performance Evaluation of Frequency Reconfigurable Antenna for 5G Wireless Communication Applications. , 2021, , .		0
173	Microstrip Reconfigurable Antenna with Tunable Frequency and Polarization. , 2021, , .		0
174	Digital pattern synthesis with a compact MIMO antenna of half-wavelength diameter. AEU - International Journal of Electronics and Communications, 2021, 135, 153728.	2.9	9
175	Pattern Reconfigurable Antenna for Cognitive Radio. , 2021, , .		1
176	Low Profile Frequency Reconfigurable Antenna For ISM Band Applications. , 2021, , .		0
177	Compact Shared Aperture Quasi-Yagi Antenna With Pattern Diversity for 5G-NR Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 4178-4183.	5.1	25
178	Digital Reconfiguration of a Single Arm 3-D Bowtie Antenna. IEEE Transactions on Antennas and Propagation, 2021, 69, 4184-4188.	5.1	5
179	Man-in-the-Middle Attack Resistant Secret Key Generation via Channel Randomization. , 2021, , .		5
180	Design and Verification of Novel Low-Profile Miniaturized Pattern and Frequency Tunable Microstrip Patch Antenna Using Two PIN Diodes. Brazilian Journal of Physics, 2021, 51, 1303-1313.	1.4	55
181	A Monopole Antenna With Reconfigurable Circular Polarization and Pattern Tilting Ability in Two Switchable Wide Frequency Bands. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1661-1665.	4.0	22
182	Low-Profile Frequency-Reconfigurable Dielectric Patch Antenna and Array Based on New Varactor-Loading Scheme. IEEE Transactions on Antennas and Propagation, 2021, 69, 5469-5478.	5.1	20
183	A Frequency-Reconfigurable Microstrip Antenna with Constant Dipole-Like Radiation Patterns Using Single Bias, Triple Varactor Tuning with Reduced Complexity. Wireless Personal Communications, 0, , 1.	2.7	3

#	Article	IF	Citations
184	Grapheneâ€Based Microwave Metasurfaces and Radioâ€Frequency Devices. Advanced Photonics Research, 2021, 2, 2100142.	3.6	15
185	Quadcopter active phased antenna array. Procedia Computer Science, 2021, 186, 628-635.	2.0	2
186	Reconfigurable Antennas Based on Pure Water. IEEE Open Journal of Antennas and Propagation, 2021, 2, 623-633.	3.7	14
187	Active Phased Antenna Arrays for Long-Range Mobile Radars Based on Quadcopters. Smart Innovation, Systems and Technologies, 2021, , 165-174.	0.6	1
188	Behavior of graphene based planar antenna at microwave and terahertz frequency. Photonics and Nanostructures - Fundamentals and Applications, 2020, 40, 100800.	2.0	15
189	Photonic Downconversion and Optically Controlled Reconfigurable Antennas in mm-waves Wireless Networks. , 2016, , .		4
190	Synthesis and Mechanical Reconfiguration of Ground Plane Tilted Microstrip Antennas Based on Tetra-Circle Fractals. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2020, 19, 228-241.	0.7	2
191	RECONFIGURABLE GRAPHENE ANNULAR RING ANTENNA FOR MEDICAL AND IMAGING APPLICATIONS. Progress in Electromagnetics Research M, 2020, 89, 53-62.	0.9	8
192	Design and Experimental Analysis of Multiband Frequency Reconfigurable Antenna for 5G and Sub-6 GHz Wireless Communication. Micromachines, 2021, 12, 32.	2.9	26
193	Investigation of an Efficient RF-MEMS Switch for Reconfigurable Antenna Using Hybrid Algorithm with Artificial Neural Network. Journal of Artificial Intelligence, 2018, 11, 79-84.	2.0	6
194	Design and Simulation of Paper-Based Microstrip and Reconfigurable Multiband Antenna. , 2021, , .		0
195	Millimetre wave coarse beamforming using outband subâ€6ÂGHz reconfigurable antennas. IET Communications, 0, , .	2.2	0
196	A Novel MIMO - OFDM Technique for Improving Wireless Communications System Performance based on SFâ€“BC. International Journal of Computer Applications, 2015, 131, 28-31.	0.2	0
197	Novel Design of Dual-Band Reconfigurable Dipole Antenna Using Lumped and Distributed Elements. IEICE Transactions on Communications, 2016, E99.B, 1550-1557.	0.7	0
198	Mechanically Reconfigurable Linear Array Antenna Fed by a Tunable Corporate Waveguide Network With Tuning Screws. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1430-1434.	4.0	10
199	Controlling The Radiation Pattern of Patch Antenna Using Switchable EBG. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 2014.	0.8	3
200	Compact Wideband Frequency Reconfigurable Metamaterial Antenna Design. ELEKTRIKA- Journal of Electrical Engineering, 2019, 18, 22-25.	0.3	0
201	Frequency Agile Slotted Diagonally Sliced Elliptically Polarized Square Patch Antenna. Algorithms for Intelligent Systems, 2020, , 583-588.	0.6	0

#	Article	IF	Citations
202	Frequency reconfigurable Microstrip Patch Antenna with an Arc-shaped cut. , 2020, , .		0
203	S/X dual-band real-time modulated frequency selective surface based absorber. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 204101.	0.5	6
204	A Review on Reconfigurable Microstrip Antennas. Learning and Analytics in Intelligent Systems, 2020, , 568-577.	0.6	0
205	Frequency Tunable Slot Antenna for Wireless Applications. , 2021, , .		0
206	Polarization and Bandwidth Reconfigurable Rectangular Dielectric Resonator Antenna. , 2020, , .		3
207	A Digitally Tuned Flexible Reconfigurable Antenna for IoT Devices. , 2020, , .		1
208	Liquid crystalâ€based beam switchable threeâ€element microstrip parasitic array. IET Microwaves, Antennas and Propagation, 2020, 14, 1857-1861.	1.4	0
209	Beam reconfigurable graphene-based Yagiâ€“Uda antenna with higher-order TM mode generation for THz applications. Optical Engineering, 2020, 59, .	1.0	10
210	Frequency-Reconfigurable Dielectric Patch Antenna With Bandwidth Enhancement. IEEE Transactions on Antennas and Propagation, 2022, 70, 2510-2519.	5.1	13
211	Design & Analysis of Frequency Reconfigurable Microstrip Patch Antenna for Ku/K Bands Applications using Pin Diode. , 2021, , .		1
212	Multiband Reconfigurable Antenna Design with Frequency, Polarization and Pattern Diversities. Lecture Notes in Networks and Systems, 2022, , 81-91.	0.7	0
213	A reconfigurable integrated <scp>4â€port UWB</scp> and <scp>NB</scp> antenna system for cognitive radio application. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, e22998.	1.2	5
214	Low-Profile Multifunctional Pattern Reconfigurable Antenna Using Periodic Capacitor-Loaded Surface for 5G and Beyond. IEEE Transactions on Antennas and Propagation, 2022, 70, 3277-3286.	5.1	5
215	Differential-Fed Pattern-Reconfigurable Dielectric Patch Antenna and Array With Low Cross-Polarization. IEEE Transactions on Antennas and Propagation, 2022, 70, 3870-3875.	5.1	13
216	Reconfigurable Terahertz Dipole Antenna with Integrated Graphene Sheets. , 2020, , .		1
217	Design of Polarization and Frequency Reconfigurable Probe Fed Antenna for Wireless Applications. , 2020, , .		1
218	Multi-Layered Coating Metasurfaces Enabling Frequency Reconfigurability in Wire Antenna. IEEE Open Journal of Antennas and Propagation, 2022, 3, 206-216.	3.7	20
219	2D Direction of Arrival Estimation Using Uniform Circular Arrays With Radiation Pattern Reconfigurable Antennas. IEEE Access, 2022, 10, 11909-11923.	4.2	3

#	Article	IF	Citations
220	Minimization of the Worst Case Average Energy Consumption in UAV-Assisted IoT Networks. IEEE Internet of Things Journal, 2022, 9, 15827-15838.	8.7	9
221	Compact dual-band circularly-polarized frequency reconfigurable microstrip antenna for BeiDou navigation satellite system application. IEICE Electronics Express, 2022, 19, 20220012-20220012.	0.8	2
222	Compact Wideband Pattern Reconfigurable Antennas Inspired by End-Fire Structure for 5G Vehicular Communication. IEEE Transactions on Vehicular Technology, 2022, 71, 4655-4664.	6.3	21
223	An RHCP and LHCP polarization reconfigurable microstrip antenna for ISM band smart city applications. Frequenz, 2022, 76, 391-399.	0.9	1
224	Low profile multiband microstrip patch antenna with frequency reconfigurable feature using PIN diode for S, C, X, and Ku band applications. International Journal of Communication Systems, 2022, 35, .	2.5	41
225	Origami Based Reconfigurable Helical Antenna. , 2021, , .		2
226	Miniaturized Meta-Resonator Based Pattern Reconfigurable Antenna for Sub 6 GHz Application. , 2021, , .		1
227	Liquid Metal-Based Devices: Material Properties, Fabrication and Functionalities. Nanomaterials, 2021, 11, 3400.	4.1	9
228	Coating Metasurfaces Enabling Antenna Frequency Reconfigurability for Cognitive Radio System. , 2021, , .		4
229	A Compact, Broadband, Monopole-Like Endfire Antenna With Reconfigurable Patterns for 5G Applications. IEEE Transactions on Antennas and Propagation, 2022, 70, 7199-7204.	5.1	7
230	Frequency-Reconfigurable Circularly Polarized Omnidirectional Antenna. IEEE Transactions on Antennas and Propagation, 2022, 70, 7205-7210.	5.1	13
231	MIMO Evolution Beyond 5G Through Reconfigurable Intelligent Surfaces and Fluid Antenna Systems. Proceedings of the IEEE, 2022, 110, 1244-1265.	21.3	23
232	Shrinkyâ€Dink millifluidicsâ€based continuously reconfigurable dielectric liquidâ€assisted microstrip patch antenna. Microwave and Optical Technology Letters, 0, , .	1.4	0
233	Dual Band Radiation Pattern Reconfigurable Antenna for Two-Port 5G Mobile Terminals. , 2021, , .		0
234	Optically Controlled Circularly Polarized-Reconfigurable Millimeter-Wave Rectangular Dielectric Resonator Antenna using Photoconductive Switches. , 2022, , .		1
235	Design of a wideband planar printed patternâ€reconfigurable antenna and its application in wideband phased linear array. International Journal of RF and Microwave Computer-Aided Engineering, 0, , .	1.2	0
236	Compact Multiband Reconfigurable MIMO Antenna for Sub- 6GHz 5G Mobile Terminal. IEEE Access, 2022, 10, 60241-60252.	4.2	11
237	A 1-Bit Phase-Reconfigurable Magneto-Electric Dipole Antenna with Wide Beamwidth. , 2021, , .		0

#	Article	IF	Citations
238	Frequency-Reconfigurable Dual-Band Dielectric Patch Antenna. , 2021, , .		0
239	Overview of Metamaterials-Integrated Antennas for Beam Manipulation Applications: The Two Decades of Progress. IEEE Access, 2022, 10, 67096-67116.	4.2	7
240	Limiting capabilities of two-dimensional plasmonics in electromagnetic wave detection. Physical Review Applied, 2022, 17, .	3.8	4
242	Obtaining wide bandwidth with higher-order TM modes merging in a graphene-based logarithmic antenna for THz sensing applications. , 2022, 169, 207344.		3
243	Pattern Reconfigurable Antennas at Millimeter-Wave Frequencies: A Comprehensive Survey. IEEE Access, 2022, 10, 83029-83042.	4.2	12
244	A Reconfigurable Patch Antenna With Linear and Circular Polarizations Based on Double-Ring-Slot Feeding Structure. IEEE Transactions on Antennas and Propagation, 2022, 70, 11389-11400.	5.1	6
245	Varactor-Based Phase Shifters Operating in Differential Pairs for Beam-Steerable Antennas. IEEE Transactions on Antennas and Propagation, 2022, 70, 7670-7682.	5.1	6
246	Compound Reconfigurable Dielectric Resonator Antenna with Agile Polarization and Pattern Diversity. , 2022, , .		0
247	Study on Loss of Varactor-Loaded Tunable Microstrip Antennas Considering Q Factor. , 2022, , .		0
248	Reconfigurable graphene-based metamaterial polarization converter for terahertz applications. Optical and Quantum Electronics, 2022, 54, .	3.3	2
249	Smartphone <scp>metalâ€casing</scp> integrated <scp>frequencyâ€reconfigurable</scp> multipleâ€input multipleâ€output slot antenna. International Journal of RF and Microwave Computer-Aided Engineering, 0, , .	1.2	0
250	A Beam Steering Dielectric Resonator Antenna Designed Using Rogers RO4003C Material for S-Band Applications. Advances in Materials Science and Engineering, 2022, 2022, 1-10.	1.8	1
251	Design of pattern-reconfigurable circularly polarized unidirectional antenna based on quasi-radiator for ISM applications. Heliyon, 2022, 8, e11721.	3.2	2
252	Design Approach for Pattern-Reconfigurable Patch Antenna Without Extra Feeding Networks. IEEE Transactions on Antennas and Propagation, 2023, 71, 1925-1930.	5.1	5
253	Spectrum Sensing Using Software Defined Radio for Cognitive Radio Networks: A Survey. IEEE Access, 2022, 10, 131887-131908.	4.2	3
254	Design and Comparative Analysis of Reconfigurable Antenna with Compound Reconfigurability. Lecture Notes in Electrical Engineering, 2023, , 95-104.	0.4	0
255	Array Antenna for Reconfigurations. , 0, , .		1
256	Gain-enhanced reconfigurable radiation array with mechanically driven system and directive elements. Frontiers of Mechanical Engineering, 2022, 17, .	4.3	1

#	Article	IF	Citations
257	Electromagnetic Reconfiguration Using Stretchable Mechanical Metamaterials. Advanced Science, 2023, 10, .	11.2	4
258	Multistable helical antenna with reconfigurable radiation pattern for spacecraft. , 2023, , .		0
259	Reconfigurable Low-Voltage Hexagonal Boron Nitride Nonvolatile Switches for Millimeter-Wave Wireless Communications. Nano Letters, 2023, 23, 1152-1158.	9.1	6
260	A continuous frequency tuning Fabryâ€“Perot Cavity antenna with stable radiation performance. International Journal of Microwave and Wireless Technologies, 0, , 1-7.	1.9	0
261	A Frequency Reconfigurable Monopole Antenna Diversity for 5G Wireless Communication and IoT Applications. , 2022, , .		0
262	Towards a full design of a super-wide band slotted antenna array using graphene material for future 6G applications. Results in Optics, 2023, 11, 100427.	2.0	1
263	Recent progress in dielectric resonator antenna: Materials, designs, fabrications, and their performance. Applied Physics Reviews, 2023, 10, .	11.3	19
264	Radiation Pattern, Polarization and Frequency Reconfigurable Dielectric Resonator Antenna. , 2022, , .		0
265	Optimal Morphologies of n-Omino-Based Reconfigurable Robot for Area Coverage Task Using Metaheuristic Optimization. Mathematics, 2023, 11, 948.	2.2	2
266	A Compact Reconfigurable CPW-Fed Dual Band-Notched UWB Antenna Using PIN Diodes. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2023, 47, 1153-1165.	2.3	1
267	High-gain reconfigurable polarization antenna based on metamaterial array for Terahertz applications. Optical and Quantum Electronics, 2023, 55, .	3.3	2
268	Electrical Reconfigurability in Modern 4G, 4G/5G and 5G Antennas: A Critical Review of Polarization and Frequency Reconfigurable Designs. IEEE Access, 2023, 11, 29215-29233.	4.2	1
269	A Flexible and Foldable Frequency-Reconfigurable Antenna Based on Liquid Metal. , 2022, , .		0
270	A metaheuristic approach to optimal morphology in reconfigurable tiling robots. Complex & Intelligent Systems, 0, , .	6.5	1
271	Pattern Reconfigurable Hemispherical Conformal Antenna Array. , 2022, , .		0
272	Proposal and Design of a Null Reconfigurable Patch Antenna on the Basis of Multimode Method. IEEE Transactions on Antennas and Propagation, 2023, , 1-1.	5.1	0
273	Reconfigurable Radiation Pattern of Yagi-Uda Array Based on Graphene Patch Sectors. , 2023, , .		0
274	Synthesis of sparse planar arrays with multiple patterns: An automatic coordinate pairing approach. Signal Processing, 2023, 212, 109161.	3.7	0

#	Article	IF	Citations
275	Design of CPW fed UWB antenna for wireless communication. AIP Conference Proceedings, 2023, , .	0.4	0
276	Optically Reconfigurable Slotted Waveguide Antenna Array for 5G Applications. , 2023, , .		1
277	Softly, Deftly, Scrolls Unfurl Their Splendor: Rolling Flexible Surfaces for Wideband Wireless. , 2023, , .		0
278	Fox-Face Compound Reconfigurable Antenna for Wireless Systems. , 2023, , .		0
279	Pattern and Polarization Diversity Multisector Annular Antenna for IoT Applications. IEEE Transactions on Antennas and Propagation, 2023, 71, 7241-7249.	5.1	1
280	Design of a Directly-Fed Pattern Reconfigurable Patch Antenna and Its Array Performance. , 2023, , .		0
281	Scattering from Reconfigurable Metasurfaces and Their Applications. , 2023, , 361-387.		0
282	Cell throughput analysis for downlink multi-user MIMO transmission with radiation pattern reconfigurable antennas. , 2023, , .		1
283	Bandwidth Reconfigurable Wideband Antenna with comparison between PIN diodes and Vanadium Dioxide switches. , 2023, , .		0
284	Novel Frequency-Reconfigurable Antennas with Ring Resonators and RF Switches: Enhancing Versatility and Adaptability in Wireless Communication Systems. Applied Sciences (Switzerland), 2023, 13, 10237.	2.5	1
285	Miniaturized Planar Pattern Reconfigurable Antenna for Smart Wi-Fi Applications. IEEE Antennas and Wireless Propagation Letters, 2023, , 1-5.	4.0	0
286	New Approaches for a Reconfigurable Microstrip Patch Antenna Using Inverse Artificial Neural Networks. , 2024, , 1071-1079.		0
287	Design Analysis of Graphene Based Half Wave Dipole Antenna for Future Wireless Applications. , 2023, , .		0
288	Signal Processing Based Antenna Pattern Characterization for MIMO Systems. , 2023, , .		0
289	Design of Wide-beam Hybrid Monopole Dielectric Resonant Antenna. , 2023, , .		0
290	Metasurface-Loaded Polarization Reconfigurable Dielectric Resonator Antenna. , 2023, , .		0
291	Microwave tunability in tin substituted barium titanate. Journal of the European Ceramic Society, 2024, 44, 1627-1635.	5.7	1
292	A Frequency-Selective Reconfigurable Antenna for Wireless Applications in the S and C Bands. Sensors, 2023, 23, 8912.	3.8	0

#	Article	IF	Citations
293	Tuning-Range Extension Strategies for Varactor-Based Frequency-Reconfigurable Antennas. IEEE Open Journal of Antennas and Propagation, 2023, 4, 1087-1094.	3.7	0
294	Characterization of Resistance and Inductance of PIN Diode at mmWave Frequency Using 7-Layer Deep Neural Network. IEEE Access, 2023, 11, 126782-126790.	4.2	0
295	Linear Polarization Reconfiguration Study on Antennas through Dipol and Patch Structures. , 2023, , .		0
296	Comparative Study of Origami Enabled Helical and Curlicue Reconfigurable Antennas. , 2023, , .		0
297	A Triple Band Reconfigurable Filtering Antenna with High Frequency Selectivity. Algorithms for Intelligent Systems, 2023, , 387-397.	0.6	0
298	A Design of Dual-Polarized Composite Patch-Monopole Antenna With Reconfigurable Radiation Pattern. IEEE Open Journal of Antennas and Propagation, 2023, , 1-1.	3.7	0
299	Analysis, Design, and Measurement of Continuous Frequency-Scanning Polarization-Rotating Antenna. IEEE Transactions on Antennas and Propagation, 2024, 72, 1911-1916.	5.1	0
300	Frequency reconfigurable dual band PIFA antenna for IoT and NB-IoT applications. , 2023, , .		0
301	A Terahertz Frequency Reconfigurable Microstrip Patch Antenna Using Micron-Sized Silver-Coated Ferrite Particles as Switching Elements. , 2023, , .		0
302	Reconfigurable Antenna for Wireless Communication: Recent Developments, Challenges and Future. Wireless Personal Communications, 0, , .	2.7	0
303	A multi-stable deployable quadrifilar helix antenna with radiation reconfigurability for disaster-prone areas. Nature Communications, 2023, 14, .	12.8	0
304	Graphene-based hybrid material micro strip slotted antenna for THz application. Journal of Optics (India), 0, , .	1.7	0
305	Experimental Evaluation of A Dual-Band Microstrip Antenna with Tunable Frequency Characteristics Based on Varactor Diodes. , 2023, , .		0
306	Binary-Coded Frequency Reconfigurable Antenna for Cognitive Radio. , 2023, , .		0
307	Design of Beam Steering Resonator Antenna for 5G using Switch-Coupling Parasitic Element. , 2023, , .		0
308	Design of a Flexible Multiband Antenna with Frequency Reconfigurable Operation. , 2023, , .		0
309	Frequency Reconfigurability of SIW Microstrip Patch Antennas Using Various Nematic Liquid Crystals in the Ka Band. , 2023, , .		0
310	Broadband parasitic modeling of diodes in the millimeter-wave band. AEU - International Journal of Electronics and Communications, 2024, 177, 155216.	2.9	0

#	Article	IF	Citations
311	Reliability Evaluation Method for Array Antenna Considering Performance Changes. Sensors, 2024, 24, 1914.	3.8	0