Eightâ€port orthogonally dualâ€polarised MIMO anten smartphone

IET Microwaves, Antennas and Propagation

11, 1810-1816

DOI: 10.1049/iet-map.2017.0230

Citation Report

#	Article	IF	Citations
1	Hepta-Band Coupled-Fed Loop Antenna For LTE/WWAN Unbroken Metal-Rimmed Smartphone Applications. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 311-314.	4.0	52
2	Hybrid 5G/WLAN <tex>$4 imes 4$</tex> Wearable MIMO Antenna Using Loop Structures. , 2018, , .		0
3	Hybrid 12-Antenna Array for Quad-Band 5G/Sub-6GHz MIMO in Micro Wireless Access Points. , 2018, , .		1
4	Dualâ€mode and tripleâ€band 10â€antenna handset array and its multipleâ€input multipleâ€output performance evaluation in 5G. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 29, e21538.	1.2	13
5	User Influence on Mobile Terminal Antennas: A Review of Challenges and Potential Solution for 5G Antennas. IEEE Access, 2018, 6, 77695-77715.	4.2	32
6	Tightly arranged orthogonal mode antenna for 5G MIMO mobile terminal. Microwave and Optical Technology Letters, 2018, 60, 1751-1756.	1.4	35
7	Compact 5G MIMO Mobile Phone Antennas With Tightly Arranged Orthogonal-Mode Pairs. IEEE Transactions on Antennas and Propagation, 2018, 66, 6364-6369.	5.1	215
8	<scp>D</scp> esign of 8ÂÃ—Â8 dualâ€band <scp>MIMO</scp> antenna array for 5 <scp>G</scp> smartphone applications. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21420.	1.2	37
9	Dual-Band MIMO Antenna With Compact Self-Decoupled Antenna Pairs for 5G Mobile Applications. IEEE Access, 2019, 7, 82288-82296.	4.2	125
10	A Compact Building Block With Two Shared-Aperture Antennas for Eight-Antenna MIMO Array in Metal-Rimmed Smartphone. IEEE Transactions on Antennas and Propagation, 2019, 67, 6430-6438.	5.1	91
11	Tightly Arranged Four-Element MIMO Antennas for 5G Mobile Terminals. IEEE Transactions on Antennas and Propagation, 2019, 67, 6353-6361.	5.1	105
12	Dual-Band Inverted F-Shaped Antenna Array for Sub-6 GHz Smartphones. , 2019, , .		5
13	Eight Element Multiple-Input Multiple-Output (MIMO) Antenna for 5G Mobile Applications. IEEE Access, 2019, 7, 134488-134495.	4.2	89
14	Multi-Band MIMO Antenna Design with User-Impact Investigation for 4G and 5G Mobile Terminals. Sensors, 2019, 19, 456.	3.8	53
15	Eight-Element Dual-Polarized MIMO Slot Antenna System for 5G Smartphone Applications. IEEE Access, 2019, 7, 15612-15622.	4.2	161
16	Broadband MIMO Antenna System for 5G Operations in Mobile Phones. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21857.	1.2	18
17	Slot antenna array for fifth generation metal frame mobile phone applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21841.	1.2	24
18	Wideband MIMO Antenna Systems Based on Coupled-Loop Antenna for 5G N77/N78/N79 Applications in Mobile Terminals. IEEE Access, 2019, 7, 93761-93771.	4.2	79

#	Article	IF	Citations
19	MIMO Antenna With Compact Decoupled Antenna Pairs for 5G Mobile Terminals. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1367-1371.	4.0	151
20	Polarization-Orthogonal Co-frequency Dual Antenna Pair Suitable for 5G MIMO Smartphone With Metallic Bezels. IEEE Transactions on Antennas and Propagation, 2019, 67, 5212-5220.	5.1	123
21	A Dual-Wideband Dual-Polarized Magneto-Electric Dipole Antenna With Dual Wide Beamwidths for 5G MIMO Microcell Applications. IEEE Access, 2019, 7, 43346-43355.	4.2	26
22	High-Isolation 3.5 GHz Eight-Antenna MIMO Array Using Balanced Open-Slot Antenna Element for 5G Smartphones. IEEE Transactions on Antennas and Propagation, 2019, 67, 3820-3830.	5.1	217
23	Multiband multipleâ€input multipleâ€output antenna with high isolation for future 5G smartphone applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21758.	1.2	16
24	A dualâ€band eightâ€antenna multiâ€input multiâ€output array for 5G metalâ€framed smartphones. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21745.	1.2	9
25	Compact Dual Band MIMO Antenna with High Isolation. , 2019, , .		0
26	Compact Wideband MIMO Antenna System for 5G Metal Frame Mobile Phones. , 2019, , .		1
27	A Compact 12-Port MIMO Mobile Antenna with Dual LTE Band. , 2019, , .		1
28	Tunable Main LTE $4imes 4$ MIMO Antenna for Future Smartphone Application. , 2019, , .		0
29	Wideband MIMO Antenna Array Covering 3.3â€“7.1 GHz for 5G Metal-Rimmed Smartphone Applications. IEEE Access, 2019, 7, 142070-142084.	4.2	61
30	A High-Isolation Building Block Using Stable Current Nulls for 5G Smartphone Applications. IEEE Access, 2019, 7, 170419-170429.	4.2	23
31	8â€port multibeam planar UWBâ€MIMO antenna with pattern and polarisation diversity. IET Microwaves, Antennas and Propagation, 2019, 13, 2297-2302.	1.4	45
32	MIMO Antenna System for Multi-Band Millimeter-Wave 5G and Wideband 4G Mobile Communications. IEEE Access, 2019, 7, 181916-181923.	4.2	75
33	Metal-frame-integrated eight-element multiple-input multiple-output antenna array in the long term evolution bands 41/42/43 for fifth generation smartphones. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21495.	1.2	36
34	Gain-enhanced SIW cavity-backed slot antenna by using TE410 mode resonance. AEU - International Journal of Electronics and Communications, 2019, 98, 68-73.	2.9	14
35	Wideband MIMO Antenna Array Design for Future Mobile Devices Operating in the 5G NR Frequency Bands n77/n78/n79 and LTE Band 46. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 74-78.	4.0	75
36	Self-Decoupled MIMO Antenna Pair With Shared Radiator for 5G Smartphones. IEEE Transactions on Antennas and Propagation, 2020, 68, 3423-3432.	5.1	142

#	Article	IF	Citations
37	Wideband 5G MIMO Antenna With Integrated Orthogonal-Mode Dual-Antenna Pairs for Metal-Rimmed Smartphones. IEEE Transactions on Antennas and Propagation, 2020, 68, 2494-2503.	5.1	160
38	Wideband eightâ€element antenna for <scp>5G</scp> metal frame mobile phone applications. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22442.	1.2	8
39	Integrated LTE and Millimeter-Wave 5G MIMO Antenna System for 4G/5G Wireless Terminals. Sensors, 2020, 20, 3926.	3.8	65
40	Isolated Ground-Radiation Antenna With Inherent Decoupling Effect and its Applications in 5G MIMO Antenna Array. IEEE Access, 2020, 8, 139892-139902.	4.2	12
41	16-Port Non-Planar MIMO Antenna System With Near-Zero-Index (NZI) Metamaterial Decoupling Structure for 5G Applications. IEEE Access, 2020, 8, 157946-157958.	4.2	25
42	Design of <scp>MIMO</scp> antenna system operating in wideband of 3300 to 6400 <scp>MHz</scp> for future <scp>5G</scp> mobile terminal applications. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22426.	1.2	7
43	COMPACT DUAL-BAND MIMO ANTENNA SYSTEM FOR LTE SMARTPHONE APPLICATIONS. Progress in Electromagnetics Research C, 2020, 102, 13-30.	0.9	9
44	HYBRID ANTENNA ARRAY FOR 4G/5G SMARTPHONE APPLICATIONS. Progress in Electromagnetics Research M, 2020, 96, 109-118.	0.9	2
45	Eight-Element Compact UWB-MIMO/Diversity Antenna with WLAN Band Rejection for 3G/4G/5G Communications. IEEE Open Journal of Antennas and Propagation, 2020, , 1-1.	3.7	22
46	Compact broadband <scp>multiâ€input multiâ€output</scp> antenna covering 3300 to 6000 <scp>MHz</scp> band for <scp>5G</scp> mobile terminal applications. Microwave and Optical Technology Letters, 2020, 62, 3310-3316.	1.4	10
47	Orthogonally dualâ€polarised MIMO antenna array with pattern diversity for use in 5G smartphones. IET Microwaves, Antennas and Propagation, 2020, 14, 457-467.	1.4	34
48	Design of Multi-Mode Antenna Array for Use in Next-Generation Mobile Handsets. Sensors, 2020, 20, 2447.	3.8	18
49	Eight-Port Metamaterial Loaded UWB-MIMO Antenna System for 3D System-in-Package Applications. IEEE Access, 2020, 8, 106982-106992.	4.2	30
50	Ultra-Wideband MIMO Antenna System With High Element-Isolation for 5G Smartphone Application. IEEE Access, 2020, 8, 56281-56289.	4.2	65
51	Decoupling methods of MIMO antenna arrays for 5G applications: a review. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 62-71.	2.6	18
52	Enhancing MIMO Antenna Isolation Characteristic by Manipulating the Propagation of Surface Wave. IEEE Access, 2020, 8, 115572-115581.	4.2	22
53	A compact pattern diversity MIMO antenna with enhanced bandwidth and highâ€isolation characteristics for WLAN/5G/WiFi applications. Microwave and Optical Technology Letters, 2020, 62, 2353-2364.	1.4	38
54	Metasurface-Based Dual Polarized MIMO Antenna for 5G Smartphones Using CMA. IEEE Access, 2020, 8, 37250-37264.	4.2	37

#	Article	IF	Citations
55	Performance Study of a MIMO Mobile Terminal With Upto 18 Elements Operating in the Sub-6 GHz 5G Band With User Hand. IEEE Access, 2020, 8, 28164-28177.	4.2	9
56	High diversity gain superâ€wideband single bandâ€notch MIMO antenna for multiple wireless applications. IET Microwaves, Antennas and Propagation, 2020, 14, 109-119.	1.4	35
57	Compact eightâ€port MIMO/diversity antenna with band rejection characteristics. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22170.	1.2	25
58	A Compact Single-Layer Four-Port Orthogonally Polarized Yagi-Like MIMO Antenna System. IEEE Transactions on Antennas and Propagation, 2020, 68, 6372-6377.	5.1	27
59	Ultra-Wideband Diversity MIMO Antenna System for Future Mobile Handsets. Sensors, 2020, 20, 2371.	3.8	26
60	Broadband Eight-Antenna Array Design for Sub-6 GHz 5G NR Bands Metal-Frame Smartphone Applications. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1078-1082.	4.0	74
61	A lowâ€profile wideband dualâ€polarized antenna with gain enhancement, low gain variations, and low cross polarization for 5G indoor communications. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22253.	1.2	3
62	Compact Eight-Element Antenna Array for Triple-Band MIMO Operation in 5G Mobile Terminals. IEEE Access, 2020, 8, 19433-19449.	4.2	58
63	A Low-Profile and High-isolated MIMO Antenna for 5G Mobile Terminal. Micromachines, 2020, 11, 360.	2.9	30
64	A Novel Versatile Decoupling Structure and Expedited Inverse-Model-Based Re-Design Procedure for Compact Single-and Dual-Band MIMO Antennas. IEEE Access, 2021, 9, 37656-37667.	4.2	11
65	Ten Antenna Array Using a Small Footprint Capacitive-Coupled-Shorted Loop Antenna for 3.5 GHz 5G Smartphone Applications. IEEE Access, 2021, 9, 33796-33810.	4.2	28
66	Integration of Sub-6-GHz and mm-Wave Bands With a Large Frequency Ratio for Future 5G MIMO Applications. IEEE Access, 2021, 9, 11241-11251.	4.2	46
67	Vertically Polarized Quasi-Yagi MIMO Antenna for 5G N78 Band Application. IEEE Access, 2021, 9, 7836-7844.	4.2	10
68	New compact MIMO antenna for 5G, WiMAX and WLAN technologies with dual polarisation and element diversity. IET Microwaves, Antennas and Propagation, 2021, 15, 415-426.	1.4	6
69	High Isolation With Mushroom Shaped EBG Super Wide Band MIMO Antenna. , 2021, , .		1
70	Dual-Band, Dual-Polarized Two Element Slot Antenna for Fifth Generation Mobile Devices. Turkish Journal of Computer and Mathematics Education, 2021, 12, 4822-4830.	0.3	0
71	Four-element pentaband MIMO antenna for multiple wireless application including dual-band circular polarization characteristics. International Journal of Microwave and Wireless Technologies, 2022, 14, 465-476.	1.9	6
72	Highly integrated eight-port broadband MIMO antenna exploiting polarization and pattern diversity. Analog Integrated Circuits and Signal Processing, 0, , 1.	1.4	1

#	Article	IF	Citations
73	A Reconfigurable Dual-Band Liquid Metal Antenna for 5G Terminals. , 2021, , .		0
74	8-Port Semi-Circular Arc MIMO Antenna with an Inverted L-Strip Loaded Connected Ground for UWB Applications. Electronics (Switzerland), 2021, 10, 1476.	3.1	40
75	Six-Port Quarter Wavelength Slotted MIMO Antenna for 5G Mobile Phone. Wireless Personal Communications, 2021, 120, 2043-2059.	2.7	8
76	Investigation of 10-port coupled fed slotted MIMO antenna system for 5G mobile handset. International Journal of Microwave and Wireless Technologies, 2022, 14, 892-905.	1.9	3
77	Multiple input multiple output (MIMO) and fifth generation (5G): an indispensable technology for sub-6 GHz and millimeter wave future generation mobile terminal applications. International Journal of Microwave and Wireless Technologies, 2022, 14, 932-948.	1.9	16
78	A massive MIMO frame antenna with frequency agility and polarization diversity for LTE and 5G applications. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22823.	1.2	5
79	Dual Polarization MIMO Antenna for 5G Mobile Phone Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 4160-4165.	5.1	31
80	Efficient Six-Port MIMO Antenna System for 5G Mobile Handsets. IETE Journal of Research, 0, , 1-11.	2.6	5
81	Wideband Decoupled 8-Element MIMO Antenna for 5G Mobile Terminal Applications. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1448-1452.	4.0	59
82	Efficient and optimized six- port MIMO antenna system for 5G smartphones. Frequenz, 2021, 75, 501-512.	0.9	2
83	Opportunistic Control of a Slotted Hexagonal MIMO Structure Antenna for Lower Sub-6â€‰GHz 5G Applications. IETE Journal of Research, 2023, 69, 5628-5636.	2.6	1
84	Low-Pass Filter Based Integrated 5G Smartphone Antenna for Sub-6-GHz and mm-Wave Bands. IEEE Transactions on Antennas and Propagation, 2021, 69, 5424-5436.	5.1	41
85	Series-Slot-Fed Circularly Polarized Multiple-Inputâ€“Multiple-Output Antenna Array Enabling Circular Polarization Diversity for 5G 28 GHz Indoor Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 5607-5616.	5.1	24
86	Design and Analysis of 2â€‰Ã—â€‰4 Microstrip Patch Antenna Array with Defected Ground Structure for 5G Mobile Communication. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 479-486.	0.7	0
87	A Wideband Low-Profile Microstrip MIMO Antenna for 5G Mobile Phones. IEEE Transactions on Antennas and Propagation, 2022, 70, 1476-1481.	5.1	19
88	Compact MIMO Slots Antenna Design with Different Bands and High Isolation for 5G Smartphone Applications. Baghdad Science Journal, 2019, 16, 1093.	0.6	0
89	Six-Element MIMO Slot Antenna for 5G Metal-Frame smartphones. , 2020, , .		2
91	Antenna Decoupling Based on Self-Resonance Frequencies of Common Mode and Differential Mode. IEEE Access, 2021, 9, 145763-145773.	4.2	1

#	Article	IF	Citations
93	Dual Band Micro-strip Patch Antennas for 5G sub 6 GHz Smart Mobile Phone and C-Band Application. , 2021, , .		3
94	A compact dualâ€band multiâ€input multiâ€output antenna for 5G/WLAN/Bluetooth applications. Microwave and Optical Technology Letters, 2022, 64, 325.	1.4	6
95	A Cost-Effective Antenna-in-Package Design With a 4 Ã— 4 Dual-Polarized High Isolation Patch Array for 5G mmWave Applications. IEEE Access, 2021, 9, 163882-163892.	4.2	14
96	3-D twelve-port multi-service diversity antenna for automotive communications. Scientific Reports, 2022, 12, 403.	3.3	18
97	Design and analysis of compact 8-port dual-element MIMO antenna for wireless applications utilizing classical electromagnetic CMA approach. AEU - International Journal of Electronics and Communications, 2022, 145, 154077.	2.9	3
98	An Eight-Element MIMO Antenna system for 5G Mobile Handsets. , 2021, , .		5
99	Wideband Back-Cover Antenna Design Using Dual Characteristic Modes With High Isolation for 5G MIMO Smartphone. IEEE Transactions on Antennas and Propagation, 2022, 70, 5254-5265.	5.1	26
100	A Road towards 6G Communicationâ€"A Review of 5G Antennas, Arrays, and Wearable Devices. Electronics (Switzerland), 2022, 11, 169.	3.1	65
101	A Compact Self-Isolated MIMO Antenna System for 5G Mobile Terminals. Computer Systems Science and Engineering, 2022, 42, 919-934.	2.4	6
102	Tenâ€port multiple input multiple output antenna for 4G/5G mobile phone applications. International Journal of RF and Microwave Computer-Aided Engineering, 0, , .	1.2	0
103	Opportunistic control of crescent shape MIMO design for lower sub 6â€‰GHz 5G applications. Microwave and Optical Technology Letters, 2022, 64, 896-904.	1.4	6
104	Design of a Millimeter-Wave MIMO Antenna Array for 5G Communication Terminals. Sensors, 2022, 22, 2768.	3.8	32
105	A Sub-6 GHz MIMO Antenna Array for 5G Wireless Terminals. Electronics (Switzerland), 2021, 10, 3062.	3.1	23
106	Orthogonally polarized meandered fed multiple input multiple output antenna array for <scp>Câ€band subâ€6GHz 5G</scp> and unlicensed <scp>Wiâ€Fi</scp> smartâ€phone applications. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	1.2	0
107	Four-Element 8-Port Dual-band MIMO Antenna System for 5G Mobile Communication. , 2021, , .		0
108	Design and Analysis on Decoupling Techniques for MIMO Wireless Systems in 5G Applications. Applied Sciences (Switzerland), 2022, 12, 3816.	2.5	4
109	Latest Performance Improvement Strategies and Techniques Used in 5G Antenna Designing Technology, a Comprehensive Study. Micromachines, 2022, 13, 717.	2.9	9
110	An innovative antenna array with high inter element isolation for sub-6ÂGHz 5G MIMO communication systems. Scientific Reports, 2022, 12, 7907.	3.3	23

#	Article	IF	Citations
111	Different Configurations of a Two-Element MIMO Antenna for Mutual Coupling Reduction in 5G Application. , 2021, , .		0
112	Design and Analysis of an Eight-Port Dual-Polarized High-Efficiency Shared-Radiator MIMO Antenna for 5G Mobile Devices. Electronics (Switzerland), 2022, 11, 1628.	3.1	3
113	Eighteen-Element Antenna for Metal-Rimmed Smartphone Sub-6 GHz LTE42 Band Applications. Computers, Materials and Continua, 2022, 73, 3181-3198.	1.9	1
114	<scp>Sixteenâ€port</scp> dual band multipleâ€input multipleâ€output antenna array for <scp>5G</scp> mobile terminal applications. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	1.2	1
115	CSRR and open-stub based circular polarized and double band eight-ports MIMO antenna for 5G and ISM band applications. Microsystem Technologies, 2022, 28, 1727-1738.	2.0	6
116	Design of Wideband High Isolation MIMO Antenna for 5G Mobile Terminal. , 2022, , .		1
117	Zero ground clearance dual antenna pair for metal-cased fifth-generation multiple input multiple output smartphone. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 1562-1567.	2.6	1
118	<scp>Highâ€isolation eightâ€element MIMO</scp> array for unbroken metalâ€rimmed smartphone applications. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	1.2	1
119	Lowâ€profile wideband 8â€antenna array design for <scp>5G</scp> smartphone application. International Journal of RF and Microwave Computer-Aided Engineering, 0, , .	1.2	0
120	Four-Element/Eight-Port MIMO Antenna System With Diversity and Desirable Radiation for Sub 6 GHz Modern 5G Smartphones. IEEE Access, 2022, 10, 133037-133051.	4.2	8
121	Compact Wideband Four-Port MIMO Antenna for Sub-6 GHz and Internet of Things Applications. Micromachines, 2022, 13, 2202.	2.9	4
122	Multiport Single Element Mimo Antenna Systems: A Review. Sensors, 2023, 23, 747.	3.8	7
123	A Low Profile Double Notched UWB Antenna with Asymmetric Coplanar Strip for Wireless Applications. Lecture Notes in Networks and Systems, 2023, , 21-30.	0.7	0
124	Integrated sub-6ÂGHz and millimeter wave band antenna array modules for 5G smartphone applications. AEU - International Journal of Electronics and Communications, 2023, 161, 154542.	2.9	4
125	Fractal Loaded, Novel, and Compact Two- and Eight-Element High Diversity MIMO Antenna for 5G Sub-6 GHz (N77/N78 and N79) and WLAN Applications, Verified with TCM Analysis. Electronics (Switzerland), 2023, 12, 952.	3.1	5
126	A 10 Port MIMO Antenna For 5G NR Smartphones in the Sub-6GHz. , 2022, , .		0
127	An efficient antenna system with improved radiation for multi-standard/multi-mode 5G cellular communications. Scientific Reports, 2023, 13, .	3.3	3
128	Dual-Band Dual Antenna Pair Suitable for 5G MIMO Mobile Terminal with Metallic Bezels. , 2022, , .		0

#	Article	IF	Citations
129	Eight elements mm-wave MIMO antenna for anti-collision radar sensing application with novel hybrid techniques. AEU - International Journal of Electronics and Communications, 2023, 167, 154687.	2.9	1
130	A Compact MIMO Multiband Antenna for 5G/WLAN/WIFI-6 Devices. Micromachines, 2023, 14, 1153.	2.9	8
131	Diversified path loss performance of dual-Polarised MIMO antenna in sub-6 GHz for RFID applications. International Journal of Electronics, 0, , 1-17.	1.4	0
132	Dual-band dual-polarized MIMO design for vehicular applications. AEU - International Journal of Electronics and Communications, 2023, 170, 154772.	2.9	3
133	Design and Development of Surface Plasmon Polariton Resonance Four-Element Triple-Band Multi-Input Multioutput Systems for LTE/5G Applications. Plasmonics, 2023, 18, 1949-1958.	3.4	9
134	Design and system performance of 2-port MIMO antenna for 4G/LTE/WiMAX applications. AIP Conference Proceedings, 2023, , .	0.4	0
135	Modeling of Microwave Waveguide Systems of Complex Structure in Nonlinear Media. , 2024, , 33-98.		0
136	Design of a High Gain MIMO Dielectric Resonator Antenna for 5G mm-Wave Applications. , 2023, , .		0
138	Design and Implementation of a Multi-Band Quad-Port MIMO Antenna for the 5G Applications. , 2023, , .		0
139	A twelve element dual-band MIMO antenna for 5G smartphones. PLoS ONE, 2023, 18, e0288593.	2.5	0