

Sachin Kumar

List of Publications by Year in descending order

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123
papers

1,971
citations

304368

22
h-index

315357

38
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125
all docs

125
docs citations

125
times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	Defected Ground Structure: Fundamentals, Analysis, and Applications in Modern Wireless Trends. International Journal of Antennas and Propagation, 2017, 2017, 1-22.	0.7	258
2	MIMO antenna with built-in circular shaped isolator for sub-6 GHz 5G applications. Electronics Letters, 2018, 54, 478-480.	0.5	76
3	Analysis and design of dual band compact stacked Microstrip patch antenna with defected ground structure for WLAN/WiMax applications. AEU - International Journal of Electronics and Communications, 2015, 69, 39-47.	1.7	65
4	A CPW-fed UWB MIMO antenna with integrated GSM band and dual band notches. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21433.	0.8	65
5	Analysis and design of wide band Microstrip-line-fed antenna with defected ground structure for Ku band applications. AEU - International Journal of Electronics and Communications, 2014, 68, 951-957.	1.7	60
6	An ultra-compact two-port UWB-MIMO antenna with dual band-notched characteristics. AEU - International Journal of Electronics and Communications, 2020, 114, 152997.	1.7	56
7	A Compact Dual-Polarized MIMO Antenna With Distinct Diversity Performance for UWB Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 3096-3099.	2.4	55
8	A dual polarized multiband rectenna for RF energy harvesting. AEU - International Journal of Electronics and Communications, 2018, 93, 123-131.	1.7	51
9	Wideband Circularly Polarized Textile MIMO Antenna for Wearable Applications. IEEE Access, 2021, 9, 108601-108613.	2.6	50
10	Multiple-input-multiple-output/diversity antenna with dual band-notched characteristics for ultra-wideband applications. Microwave and Optical Technology Letters, 2020, 62, 336-345.	0.9	46
11	A compact microstrip fed dual polarised multiband antenna for IEEE 802.11 a/b/g/n/ac/ax applications. AEU - International Journal of Electronics and Communications, 2017, 72, 95-103.	1.7	41
12	Compact four-port MIMO antenna on slotted edge substrate with dual band rejection characteristics. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21756.	0.8	40
13	Planar Four-Port Dual Circularly-Polarized MIMO Antenna for Sub-6 GHz Band. IEEE Access, 2020, 8, 90779-90791.	2.6	38
14	Ultra-Miniature Circularly Polarized CPW-Fed Implantable Antenna Design and its Validation for Biotelemetry Applications. Scientific Reports, 2020, 10, 6795.	1.6	38
15	Compact quasi-elliptical-self-complementary four-port super-wideband MIMO antenna with dual band elimination characteristics. AEU - International Journal of Electronics and Communications, 2020, 114, 153001.	1.7	34
16	Dual Circularly Polarized Planar Four-Port MIMO Antenna with Wide Axial-Ratio Bandwidth. Sensors, 2020, 20, 5610.	2.1	34
17	Stacked dual-band circularly polarized microstrip antenna with small frequency ratio. Microwave and Optical Technology Letters, 2014, 56, 1933-1937.	0.9	33
18	A compact four-port UWB MIMO antenna with connected ground and wide axial ratio bandwidth. International Journal of Microwave and Wireless Technologies, 2020, 12, 75-85.	1.5	31

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19	Single-feed cross-slot loaded compact circularly polarized microstrip antenna for indoor WLAN applications. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 1313-1317.	0.9	28
20	Multiband integrated wideband antenna for bluetooth/WLAN applications. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 89, 77-84.	1.7	26
21	Compact eight-port MIMO/diversity antenna with band rejection characteristics. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020, 30, e22170.	0.8	25
22	Low profile multiband rectenna for efficient energy harvesting at microwave frequencies. <i>International Journal of Electronics</i> , 2019, 106, 2057-2071.	0.9	23
23	In-Band RCS Reduction and Isolation Enhancement of a 24 GHz Radar Antenna Using Metamaterial Absorber for Sensing and Automotive Radar Applications. <i>IEEE Sensors Journal</i> , 2020, 20, 13086-13093.	2.4	23
24	Analysis and Design of Compact High Gain Microstrip Patch Antenna with Defected Ground Structure for Wireless Applications. <i>Wireless Personal Communications</i> , 2016, 91, 661-678.	1.8	22
25	Design, modeling and analysis of dual-feed defected ground microstrip patch antenna with wide axial ratio bandwidth. <i>Journal of Computational Electronics</i> , 2018, 17, 1019-1028.	1.3	22
26	Design of compact dual-band patch antenna loaded with D-shaped complementary split ring resonator. <i>Journal of Electromagnetic Waves and Applications</i> , 2019, 33, 2096-2111.	1.0	22
27	On the bending and time domain analysis of compact wideband flexible monopole antennas. <i>AEU - International Journal of Electronics and Communications</i> , 2019, 101, 168-181.	1.7	22
28	Low-profile 2.4/5.8 GHz MIMO/diversity antenna for WLAN applications. <i>Journal of Electromagnetic Waves and Applications</i> , 2020, 34, 1283-1299.	1.0	22
29	A low profile dual band MIMO antenna for LTE/Bluetooth/Wi-Fi/WLAN applications. <i>Journal of Electromagnetic Waves and Applications</i> , 2020, 34, 1239-1253.	1.0	22
30	Bandwidth enhancement and cross-polarization suppression in ultrawideband microstrip antenna with defected ground plane. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 2141-2146.	0.9	21
31	A low profile circularly polarized UWB antenna with integrated GSM band for wireless communication. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 93, 224-232.	1.7	21
32	Low profile four-port super-wideband multiple-input-multiple-output antenna with triple band rejection characteristics. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2019, 29, e21831.	0.8	21
33	Triple band circularly polarized compact microstrip antenna with defected ground structure for wireless applications. <i>International Journal of Microwave and Wireless Technologies</i> , 2016, 8, 943-953.	1.5	20
34	3D cuboidal design MIMO/diversity antenna with band notched characteristics. <i>AEU - International Journal of Electronics and Communications</i> , 2019, 108, 141-147.	1.7	20
35	Broadband CPW-fed circularly polarized antenna for IoT-based navigation system. <i>International Journal of Microwave and Wireless Technologies</i> , 2019, 11, 835-843.	1.5	20
36	On the design and performance analysis of wristband MIMO/diversity antenna for smart wearable communication applications. <i>Scientific Reports</i> , 2021, 11, 21917.	1.6	20

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37	Design and Performance Analysis of a Compact Quad-Element UWB MIMO Antenna for Automotive Communications. <i>Electronics (Switzerland)</i> , 2021, 10, 2184.	1.8	19
38	Wideband High-Gain Double-Sided Dielectric Lens Integrated With a Dual-Bowtie Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 293-297.	2.4	18
39	3-D twelve-port multi-service diversity antenna for automotive communications. <i>Scientific Reports</i> , 2022, 12, 403.	1.6	18
40	A dual band rectifying antenna for RF energy harvesting. <i>Journal of Computational Electronics</i> , 2018, 17, 1748-1755.	1.3	17
41	Dual band double negative (DNG) metamaterial with small frequency ratio. <i>Journal of Electromagnetic Waves and Applications</i> , 2018, 32, 2167-2181.	1.0	16
42	Design of a wideband polarisation conversion metasurface and its application for RCS reduction and gain enhancement of a circularly polarised antenna. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 1427-1437.	0.7	15
43	MIMO/Diversity Antenna with Neutralization Line for WLAN Applications. <i>Mapan - Journal of Metrology Society of India</i> , 2021, 36, 763-772.	1.0	15
44	Quad-Port Multiservice Diversity Antenna for Automotive Applications. <i>Sensors</i> , 2021, 21, 8238.	2.1	15
45	Design and packaging of ultra-wideband multiple-input-multiple-output/diversity antenna for wireless applications. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020, 30, e22357.	0.8	14
46	Single-Feed Superstrate Loaded Circularly Polarized Microstrip Antenna for Wireless Applications. <i>Wireless Personal Communications</i> , 2017, 92, 1333-1346.	1.8	13
47	A compact and efficient graphene FET based RF energy harvester for green communication. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 115, 153059.	1.7	13
48	Wideband High-Gain Circularly-Polarized Low RCS Dipole Antenna With a Frequency Selective Surface. <i>IEEE Access</i> , 2019, 7, 156592-156602.	2.6	12
49	Quad-Band multi-polarized antenna with modified electric-inductive-capacitive resonator. <i>International Journal of Microwave and Wireless Technologies</i> , 2022, 14, 65-76.	1.5	12
50	Dual-band stacked circularly polarized microstrip antenna for S and C band applications. <i>International Journal of Microwave and Wireless Technologies</i> , 2016, 8, 1215-1222.	1.5	11
51	A triple band circularly polarized rectenna for RF energy harvesting. <i>Electromagnetics</i> , 2019, 39, 481-490.	0.3	11
52	Wideband textile multiple-input-multiple-output antenna for industrial, scientific and medical (ISM) wearable applications. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020, 30, e22451.	0.8	11
53	Compact ultra-wideband microstrip antenna with dual polarisation/multi-notch characteristics. <i>IET Microwaves, Antennas and Propagation</i> , 2018, 12, 1546-1553.	0.7	10
54	A compact broadband GFET based rectenna for RF energy harvesting applications. <i>Microsystem Technologies</i> , 2020, 26, 1881-1888.	1.2	10

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55	Compact Planar Super-Wideband Monopole Antenna with Four Notched Bands. Electronics (Switzerland), 2020, 9, 1204.	1.8	10
56	Design and performance analysis of a frequency reconfigurable four-element multiple-input-multiple-output antenna. AEU - International Journal of Electronics and Communications, 2022, 146, 154118.	1.7	10
57	Design of 4-element microstrip array of wideband reflector antenna with stable high gain characteristics. Microsystem Technologies, 2019, 25, 3193-3201.	1.2	9
58	Low profile single feed monopole antenna for quad-band circularly polarised applications. International Journal of Electronics, 2019, 106, 318-331.	0.9	9
59	Conformal Quad-Port UWB MIMO Antenna for Body-Worn Applications. International Journal of Antennas and Propagation, 2021, 2021, 1-13.	0.7	9
60	Single-feed circularly polarized stacked patch antenna with small-frequency ratio for dual-band wireless applications. International Journal of Microwave and Wireless Technologies, 2016, 8, 1207-1213.	1.5	8
61	Compact microstrip antennas with very wide ARBW and triple circularly polarized bands. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21162.	0.8	8
62	CPW-FED ULTRA-WIDEBAND DUAL-SENSE CIRCULARLY POLARIZED SLOT ANTENNA. Progress in Electromagnetics Research C, 2019, 94, 219-231.	0.6	8
63	Pattern and frequency reconfigurable antenna with diode loaded ELC resonator. International Journal of Microwave and Wireless Technologies, 2020, 12, 163-175.	1.5	8
64	Three-Dimensional Dual-Band Dielectric Resonator Antenna for Wireless Communication. IEEE Access, 2020, 8, 71593-71604.	2.6	8
65	Generalized Design Technique of Ultra-Wideband Transitions for Quasi-TEM Planar Transmission Lines Based on Analytical Models. IEEE Access, 2021, 9, 52619-52633.	2.6	8
66	Quad-Port UWB MIMO Footwear Antenna for Wearable Applications. IEEE Transactions on Antennas and Propagation, 2022, 70, 7905-7913.	3.1	8
67	Low-profile circularly polarized planar antenna for GPS L1, L2, and L5 bands. Microwave and Optical Technology Letters, 2020, 62, 806-815.	0.9	7
68	Compact multi-standard planar MIMO antenna for IoT/WLAN/Sub-6GHz/X-band applications. Wireless Networks, 2021, 27, 2671-2689.	2.0	7
69	Design and analysis of microstrip DGS patch antenna with enhanced bandwidth for Ku Band applications. , 2013, , .		6
70	Single Feed L-Slot Microstrip Antenna for Circular Polarization. Wireless Personal Communications, 2015, 85, 2041-2054.	1.8	6
71	Meta-surface enabled hepta-band compact antenna for wearable applications. IET Microwaves, Antennas and Propagation, 2019, 13, 2372-2379.	0.7	6
72	Compact Dual-Band Hexagonal Ring Antenna with Shorting Pins for RFID Reader Applications. , 2020, , .		6

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73	Hexa-band pattern reconfigurable antenna with defected ground plane. International Journal of Electronics, 2021, 108, 1899-1913.	0.9	6
74	A Planar Dual-Band Antenna for ISM/Wearable Applications. Wireless Personal Communications, 2021, 118, 631-646.	1.8	6
75	Truncated elliptical Self-Complementary antenna with Quad-Band notches for SWB MIMO systems. AEU - International Journal of Electronics and Communications, 2021, 131, 153608.	1.7	6
76	Design and Performance Analysis of a Compact Planar MIMO Antenna for IoT Applications. Sensors, 2021, 21, 7909.	2.1	6
77	Miniaturization of DNG metamaterial. Microwave and Optical Technology Letters, 2017, 59, 862-865.	0.9	5
78	A Dual Polarized Triple Band Stacked Elliptical Microstrip Patch Antenna for WLAN Applications. Wireless Personal Communications, 2018, 100, 1585-1599.	1.8	5
79	A Dual-Band Rat-Race Coupler for High Band Ratio Wireless Applications. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-6.	2.4	5
80	Ultra-Wideband Trapezoidal Log-Periodic Antenna Integrated with an Elliptical Lens. Electronics (Switzerland), 2020, 9, 2169.	1.8	4
81	A State-of-the Art Review on Distributed Amplifiers. Wireless Personal Communications, 2021, 117, 1471-1525.	1.8	4
82	Defected Ground Split Ring Resonator-Based Sensor for Adulteration Detection in Fluids. Wireless Personal Communications, 2021, 121, 1593-1606.	1.8	4
83	Compact Dual-Band Circularly-Polarized Cross-Dipole Antenna for Portable RFID Readers. , 2021, , .		4
84	A Triple Band Circularly Polarized Antenna for Leadless Cardiac Transcatheter Pacing System. IEEE Transactions on Antennas and Propagation, 2022, 70, 4287-4298.	3.1	4
85	Design and implementation of a compact <scp>triâ€band fourâ€port multipleâ€inputâ€multipleâ€output</scp> antenna. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	0.8	4
86	On the Design and Development of Planar Monopole Antenna for Bone Crack/Void Detection. International Journal of Antennas and Propagation, 2022, 2022, 1-12.	0.7	4
87	Pattern diversity and isolation enhancement of UWB MIMO antenna based on characteristic modes for mobile terminals. International Journal of Microwave and Wireless Technologies, 2023, 15, 793-804.	1.5	4
88	Compact microstrip antenna loaded with T-shaped slots. , 2013, , .		3
89	Carbon fiberâ€based decaâ€port multipleâ€inputâ€multipleâ€output antenna with pattern diversity and high interâ€element isolation. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22195.	0.8	3
90	Design of an ultraâ€wideband coplanar stripâ€toâ€parallel stripline transition using an analytical model based on conformal mapping. Microwave and Optical Technology Letters, 2021, 63, 1054-1060.	0.9	3

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91	Single layer proximity fed microstrip patch antenna for circularly polarized dual band wireless applications. , 2017, , .		2
92	THEORETICAL ANALYSIS AND DESIGN OF DUAL BAND DGS ANTENNA WITH SMALL FREQUENCY RATIO FOR WI-FI AND WIMAX APPLICATIONS. Progress in Electromagnetics Research M, 2017, 62, 153-166.	0.5	2
93	A Low Profile Super Wideband Antenna with Circularly Polarized Band. , 2018, , .		2
94	A New Trend to Power Up Next-Generation Internet of Things (IoT) Devices: â€˜Rectennaâ€™™. Studies in Systems, Decision and Control, 2019, , 331-356.	0.8	2
95	A hexa-band dual-sense circularly polarized antenna for WLAN/Wi-MAX/SDARS and C-band applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21599.	0.8	2
96	Threeâ€ˆdimensional cylindrical design multipleâ€ˆinputâ€ˆmultipleâ€ˆoutput/diversity antenna with high isolation for wireless communication applications. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22001.	0.8	2
97	Background and Origin of the Rectenna. Advances in Sustainability Science and Technology, 2021, , 21-48.	0.4	2
98	Multifunctional Antenna Design for Internet of Things Applications. , 2021, , .		2
99	Circularly Polarized Cross-Dipole Antenna with a Double Layer AMC Backing for UHF RFID Readers. , 2021, , .		2
100	Low Profile Circularly Polarized Monopole Antenna for Wireless Applications. , 2018, , .		1
101	Energy-Efficient System Design for Internet of Things (IoT) Devices. Studies in Systems, Decision and Control, 2019, , 49-74.	0.8	1
102	High-Gain Dipole Antenna using a Double-Sided Dielectric Lens. , 2019, , .		1
103	Low profile coupling feed circularly polarized antennas for WLAN applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21525.	0.8	1
104	Compact circularly polarized metaresonatorâ€ˆenabled decaâ€ˆband antenna. Microwave and Optical Technology Letters, 2020, 62, 726-736.	0.9	1
105	Wideband bended CPSâ€ˆtoâ€ˆmicrostrip transition for millimeterâ€ˆwave antennaâ€ˆdetector module. Microwave and Optical Technology Letters, 2020, 62, 1991-1996.	0.9	1
106	Compact Wideband Coplanar Stripline-to-Microstrip Line Transition Using a Bended Structure on a Two-Layered Substrate. Electronics (Switzerland), 2021, 10, 1272.	1.8	1
107	A Compact Wideband Flexible Antenna for Wireless Medical Telemetry Services. Wireless Personal Communications, 0, , 1.	1.8	1
108	Antenna Miniaturization and Multiband Operation Using Different Meta-Structures in the Ground Plane. , 2021, , .		1

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109	Compact dual-band MIMO cubical antenna for automotive applications. International Journal of Electronics, 2023, 110, 768-787.	0.9	1
110	A Dual-Band Circularly Polarized Hexagonal Ring Antenna for Handheld RFID Readers. Wireless Personal Communications, 2022, 125, 3101-3115.	1.8	1
111	Truncated compact circular microstrip antenna loaded with asymmetric slits. , 2013, , .		0
112	Compact Cross Shaped Slit Circularly Polarized Microstrip Antenna for GNSS Applications. , 2014, , .		0
113	A novel compact broadband microstrip fed antenna with wide axial ratio bandwidth. , 2017, , .		0
114	A Super Compact 2×2 MIMO Antenna for GSM/WLAN Applications. , 2018, , .		0
115	Dual-Band Low Profile Notched Printed UWB Monopole Antenna with Enhanced Bandwidth. , 2018, , .		0
116	A dual-band branch line coupler for LTE 0.7 GHz and LTE 2.6 GHz frequencies. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21838.	0.8	0
117	A Broadband Planar Circularly-Polarized Monopole Antenna. , 2019, , .		0
118	Anisotropic meta-surface-based wideband high gain circularly polarized patch antenna. Electromagnetics, 2020, 40, 594-604.	0.3	0
119	Low-Profile Circularly Polarized Antenna for Contemporary Wireless Communication Applications. Smart Innovation, Systems and Technologies, 2021, , 259-265.	0.5	0
120	Dual-Resonance Ultra-Miniaturized Textile Antenna for ISM/Wearable Applications. International Journal of Electronics, 0, , .	0.9	0
121	Compact Circularly Polarized 2.45/5.8-GHz Antenna for RFID Readers. , 2021, , .		0
122	Compact Modified Electric-Inductive-Capacitive Inspired Antenna for Triple-Band Operation. , 2021, , .		0
123	Sub-6 GHz Eight-Port 3-D Vehicular Antenna. , 2022, , .		0