

Rambabu Karumudi

List of Publications by Year in descending order

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56
papers

1,210
citations

448610

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56
all docs

56
docs citations

56
times ranked

1082
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of a High-Power Gaussian Pulse Transmitter for Sensing and Imaging of Buried Objects. IEEE Sensors Journal, 2022, 22, 279-287.	2.4	4
2	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
3	Design and Development of a High-Power Pulse Transmitter for Underground Environmental Perception. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2891-2903.	2.9	4
4	Design of a Low-Cost Low-Profile Energy Efficient 64-QAM Load Modulator. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2246-2257.	2.9	2
5	A High-Performance UWB Gaussian Pulse Generator: Analysis and Design. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3257-3268.	2.9	4
6	Design of a Low-Cost UWB Time-Domain Radar System for Subcentimeter Image Resolution. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3617-3628.	2.9	7
7	Design and Performance Measurement of Implantable Differential Integrated Antenna for Wireless Biomedical Instrumentation Applications. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	6
8	UWB Sensor Characterization for Radar Sensing and Imaging in Superluminal Propagation Regions. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 297-307.	2.9	6
9	Quadrilateral Spatial Diversity Circularly Polarized MIMO Cubic Implantable Antenna System for Biotelemetry. IEEE Transactions on Antennas and Propagation, 2021, 69, 1260-1272.	3.1	38
10	An Arrangement for Four-Element MIMO DRA With Complementary CP Diversity. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1616-1620.	2.4	15
11	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
12	Antenna System for Communication in Underground Mining Environment to Ensure Miners Safety. IEEE Access, 2021, , 1-1.	2.6	1
13	Microwave Imaging of Breast Tumor Using Time-Domain UWB Circular-SAR Technique. IEEE Transactions on Medical Imaging, 2020, 39, 934-943.	5.4	51
14	A Compact Dual-Band Out of Phase Power Divider Having Microstrip Compatibility. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2998-3002.	2.2	13
15	Tunable Subnanosecond Gaussian Pulse Radar Transmitter: Theory and Analysis. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3823-3833.	2.9	18
16	A Novel Dual Band Branch Line Coupler and its Application to Design a Dual Band 4 Å— 4 Butler Matrix. IEEE Access, 2020, 8, 65104-65115.	2.6	6
17	A Microwave Sensing and Imaging Method for Multiphase Flow Metering of Crude Oil Pipes. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1286-1297.	2.3	10
18	Ultra-Miniature Circularly Polarized CPW-Fed Implantable Antenna Design and its Validation for Biotelemetry Applications. Scientific Reports, 2020, 10, 6795.	1.6	38

#	ARTICLE	IF	CITATIONS
19	Design of single-feed spiral-shaped slotted planar antenna for GPS L2 and L5 applications. IET Microwaves, Antennas and Propagation, 2020, 14, 1947-1951.	0.7	1
20	Design and Development of an Inexpensive Sub-Nanosecond Gaussian Pulse Transmitter. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3773-3782.	2.9	20
21	A Dual Band Branch Line Coupler With Wide Frequency Ratio. IEEE Access, 2019, 7, 25046-25052.	2.6	13
22	Meta-surface enabled hepta-band compact antenna for wearable applications. IET Microwaves, Antennas and Propagation, 2019, 13, 2372-2379.	0.7	6
23	Design and packaging of a compact circularly polarised planar antenna for 2.45GHz RFID mobile readers. IET Microwaves, Antennas and Propagation, 2019, 13, 2310-2314.	0.7	9
24	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
25	Virtually Developed Synthetic Aperture Radar: Theory, Simulation, and Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2855-2863.	2.7	6
26	Circularly polarized D-shaped slot antenna for wireless applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21498.	0.8	18
27	Multisection branch line couplers as dual-band crossovers using coupled lines for wideband applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21523.	0.8	8
28	Design and Packaging of an Eye-Shaped Multiple-Input Multiple-Output Antenna With High Isolation for Wireless UWB Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 635-642.	1.4	67
29	Open-ended waveguide dielectric probe using time-domain measurements. Microwave and Optical Technology Letters, 2018, 60, 1108-1112.	0.9	2
30	Tapered Fed Compact UWB MIMO-Diversity Antenna With Dual Band-Notched Characteristics. IEEE Transactions on Antennas and Propagation, 2018, 66, 1677-1684.	3.1	210
31	FMCW SAR System for Near-Distance Imaging Applications—Practical Considerations and Calibrations. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 450-461.	2.9	24
32	Design of multiband multipolarised single feed patch antenna. IET Microwaves, Antennas and Propagation, 2018, 12, 2372-2378.	0.7	22
33	Metal-Cased Oil Well Inspection Using Near-Field UWB Radar Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2018, , 1-9.	2.7	19
34	Design of ultra-compact UWB antenna with band-notched characteristics for MIMO applications. IET Microwaves, Antennas and Propagation, 2018, 12, 1895-1900.	0.7	90
35	Design of a miniaturised broadband 3 Å– 3 Åmm antenna for intraocular retinal prosthesis application. Electronics Letters, 2018, 54, 1150-1152.	0.5	7
36	Thermal kinetics analysis in microwave-assisted oil sands separation. Canadian Journal of Chemical Engineering, 2017, 95, 127-135.	0.9	5

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37	UWB Antenna Design for Dispersion Free Time Synchronized Pulse Radiation. IEEE Transactions on Antennas and Propagation, 2017, 65, 6819-6826.	3.1	3
38	Microwave heating of heavy oil reservoirs: A critical analysis. Microwave and Optical Technology Letters, 2016, 58, 809-813.	0.9	6
39	Design of Pulse Characteristics for Near-Field UWB-SAR Imaging. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2684-2693.	2.9	34
40	Design of compact multi-band meanderline antenna for global positioning system/wireless local area network/worldwide interoperability for microwave access band applications in laptops/tablets. IET Microwaves, Antennas and Propagation, 2016, 10, 1618-1624.	0.7	20
41	Design of band-rejected UWB planar antenna with integrated Bluetooth band. IET Microwaves, Antennas and Propagation, 2016, 10, 1528-1533.	0.7	17
42	Studying the Superluminal Behavior of UWB Antennas and Its Effect on Near-Field Imaging. IEEE Transactions on Antennas and Propagation, 2016, 64, 5084-5093.	3.1	6
43	SAGD Process Monitoring in Heavy Oil Reservoir Using UWB Radar Techniques. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1884-1895.	2.9	25
44	Design of Koch Fractal Circularly Polarized Antenna for Handheld UHF RFID Reader Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 771-775.	3.1	95
45	Tracking a biopsy needle inside a breast using UWB circular-SAR. , 2015, , .		3
46	Material Characterization of Arbitrarily Shaped Dielectrics Based on Reflected Pulse Characteristics. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1700-1709.	2.9	18
47	Breast tumor detection using UWB circular-SAR tomographic microwave imaging. , 2015, 2015, 7063-6.		16
48	Imaging of Oil-Well Perforations Using UWB Synthetic Aperture Radar. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4510-4520.	2.7	38
49	Circularly Polarized Ultra-Wideband Radar System for Vital Signs Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2069-2075.	2.9	20
50	Decade Bandwidth Circularly Polarized Antenna Array. IEEE Transactions on Antennas and Propagation, 2013, 61, 5435-5443.	3.1	29
51	Characteristics of Ultra-Wideband Pulse Scattered From Metal Planar Objects. IEEE Transactions on Antennas and Propagation, 2013, 61, 3197-3206.	3.1	16
52	Design and analysis of a decade bandwidth 180° hybrid coupler. IET Microwaves, Antennas and Propagation, 2013, 7, 71-77.	0.7	2
53	Modeling the Transient Radiated and Received Pulses of Ultra-Wideband Antennas. IEEE Transactions on Antennas and Propagation, 2013, 61, 338-345.	3.1	15
54	Design of Transverse Electromagnetic Horn for Concrete Penetrating Ultrawideband Radar. IEEE Transactions on Antennas and Propagation, 2012, 60, 1736-1743.	3.1	24

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55	Buried Object Characterization Using Ultra-Wideband Ground Penetrating Radar. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2654-2664.	2.9	59
56	Effect of Antenna Noise on Angle-of-Arrival Estimation of Ultrawideband Receivers. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 11-17.	1.4	3