

Krishna Naishadham

List of Publications by Year in descending order

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88
papers

1,636
citations

331670

21
h-index

315739

38
g-index

89
all docs

89
docs citations

89
times ranked

1306
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Characterization of a Microwave Transducer for Gas Sensing Applications. Chemosensors, 2022, 10, 127.	3.6	5
2	Microwave Transducers for Gas Sensing: A Challenging and Promising New Frontier. IEEE Instrumentation and Measurement Magazine, 2022, 25, 42-51.	1.6	7
3	A Novel Sensor-Integrated Aperture Coupled Microwave Patch Resonator for Humidity Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	28
4	Sensor-Integrated Aperture Coupled Patch Antenna. , 2019, , .		9
5	Preliminary Study of a Cylindrical Microstrip Metasurface Using the State Space Method. , 2019, , .		0
6	Design of Low-Frequency Impedance Measurement Sensors for Respiratory Health. , 2018, , .		2
7	Highly Selective Ozone Sensors Based on Functionalized Carbon Nanotubes. , 2018, , .		6
8	Short-Time State-Space Method for Micro-Doppler Identification of Walking Subject Using UWB Impulse Doppler Radar. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3521-3534.	4.6	30
9	A 1-D block processing for non-invasive detection of 2-D cardiac and respiratory rates. , 2018, , .		3
10	Design of a graphene-loaded slotted ring resonator for sensor applications. , 2017, , .		3
11	Microwave characterization of graphene films for sensor applications. , 2017, , .		7
12	Passive nanotechnology based sensors for the remote detection of environmental pollutants impacting public health. , 2017, , .		6
13	Antenna integration with nanotechnology-based thick-film circuits for sensor applications. , 2017, , .		2
14	Estimation of Cardiopulmonary Parameters From Ultra Wideband Radar Measurements Using the State Space Method. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 1037-1046.	4.0	39
15	Phase-Based Methods for Heart Rate Detection Using UWB Impulse Doppler Radar. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3319-3331.	4.6	112
16	Overview of vital sign detection-simulation and measurements. , 2016, , .		2
17	Representation of Electromagnetic Responses in Time Domain Using State-Space System Identification Method. IEEE Transactions on Antennas and Propagation, 2016, 64, 1404-1415.	5.1	5
18	Parametric extraction of cardiac and respiratory rates from radar measurements of the human body. , 2015, , .		3

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19	Non-invasive detection of cardiac and respiratory rates from stepped frequency continuous wave radar measurements using the state space method. , 2015, , .		10
20	Design of a compact wideband slot antenna using parasitic reactive tuning. , 2014, , .		2
21	Swept-frequency order-recursive method of moments for the efficient analysis of resonant microwave circuits. Microwave and Optical Technology Letters, 2014, 56, 195-198.	1.4	0
22	Integration of carbon nanotube films with SRRs for air quality sensing applications. , 2014, , .		8
23	Design of a graphene loaded slot antenna with 100% bandwidth for wireless sensor applications. , 2014, , .		5
24	High data rate undersea broadband radio-frequency communications. , 2014, , .		5
25	An investigation on the tuning of a microstrip patch antenna using carbon nanotube thin films. , 2014, , .		7
26	Antenna design strategies to reduce coupling and interference in wireless communications systems. , 2013, , .		0
27	RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , .		1
28	A robust state space model encompassing early-time transients for electromagnetic signal extrapolation. , 2013, , .		1
29	RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , .		4
30	RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , .		1
31	A Shared-Aperture Dual-Band Planar Array With Self-Similar Printed Folded Dipoles. IEEE Transactions on Antennas and Propagation, 2013, 61, 606-613.	5.1	77
32	RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , .		0
33	RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , .		1
34	Electromagnetic human body modeling with physiological motion for radar applications. , 2012, , .		10
35	Design of a Planar Segmented Circular Loop Antenna for Omnidirectional Radiation at 5.8 GHz. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1402-1405.	4.0	10
36	Practical modeling of radio wave propagation in shallow seawater. , 2012, , .		18

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37	Omnidirectional loop antenna for a 5.8 GHz microwave backscatter RFID tag. , 2012, , .		4
38	Carbon-Nanotube Loaded Antenna-Based Ammonia Gas Sensor. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2665-2673.	4.6	110
39	Closed-Form Design Formulas for the Equivalent Circuit Characterization of Ferrite Inductors. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 923-932.	2.2	24
40	Analysis and design of a partitioned circular loop antenna for omni-directional radiation. , 2011, , .		7
41	Extraction of rf permeability of ferrite materials using direct measurement of inductors on ferrite cores. , 2011, , .		1
42	Loading effects of self-biased magnetic films on patch antennas with substrate/superstrate sandwich structure. IET Microwaves, Antennas and Propagation, 2010, 4, 1172.	1.4	29
43	Design of experiments as a microwave CAD tool. Microwave and Optical Technology Letters, 2010, 52, 1020-1024.	1.4	4
44	Full wave analysis of a dual-frequency printed slot antenna with microstrip feed. , 2010, , .		2
45	Integration of an X-band microstrip patch array and beamformer for a multifunction antenna array. , 2010, , .		4
46	Planar Annular Ring Antennas With Multilayer Self-Biased NiCo-Ferrite Films Loading. IEEE Transactions on Antennas and Propagation, 2010, 58, 648-655.	5.1	51
47	Analytical characterization and validation of creeping waves on dielectric coated and perfectly conducting cylinders. Radio Science, 2010, 45, n/a-n/a.	1.6	10
48	Tunable Miniaturized Patch Antennas With Self-Biased Multilayer Magnetic Films. IEEE Transactions on Antennas and Propagation, 2009, 57, 2190-2193.	5.1	71
49	Broadband parametric representation of packaged MEMS interconnects using a state space spectral model. Microwave and Optical Technology Letters, 2008, 50, 1482-1485.	1.4	0
50	Electronically Tunable Miniaturized Antennas on Magnetolectric Substrates With Enhanced Performance. IEEE Transactions on Magnetics, 2008, 44, 3091-3094.	2.1	49
51	A Robust State Space Model for the Characterization of Extended Returns in Radar Target Signatures. IEEE Transactions on Antennas and Propagation, 2008, 56, 1742-1751.	5.1	64
52	Planar circular loop antennas with self-biased magnetic film loading. Electronics Letters, 2008, 44, 332.	1.0	19
53	Planar circular loop antennas with self-biased magnetic film loading. , 2008, , .		2
54	Circular Polarization GPS Patch Antennas with Self-biased Magnetic Films. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2008, 4, 366-370.	0.4	3

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55	A NOVEL 1-D BLOCK PROCESSING APPROACH TO 2-D NMR SPECTROSCOPY. , 2007, , .		5
56	De-embedding intrinsic parameters of high-Q dielectric resonators from noisy measurements. Microwave and Optical Technology Letters, 2006, 48, 1453-1458.	1.4	3
57	Signal model to extract intrinsic parameters of high-Q dielectric resonators from noisy measurements. , 2005, , .		2
58	State-Space System Representation of Time-Domain Responses from Electromagnetic Simulations. , 2005, , .		2
59	State-space spectral estimation of characteristic electromagnetic responses in wideband data. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 406-409.	4.0	17
60	Measurement-based closed-form modeling of surface-mounted RF components. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 2276-2286.	4.6	22
61	Statistical construction of accurate CAD models using measured data. Microwave and Optical Technology Letters, 2002, 33, 233-238.	1.4	1
62	RF equivalent circuit modeling of ferrite-core inductors and characterization of core materials. IEEE Transactions on Electromagnetic Compatibility, 2002, 44, 258-262.	2.2	65
63	Experimental equivalent-circuit modeling of SMD inductors for printed circuit applications. IEEE Transactions on Electromagnetic Compatibility, 2001, 43, 557-565.	2.2	36
64	ARMA-based time-signature estimator for analyzing resonant structures by the FDTD method. IEEE Transactions on Antennas and Propagation, 2001, 49, 327-339.	5.1	28
65	A new absorbing boundary condition structure for waveguide analysis. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 147-152.	4.6	1
66	Accurate Probing of RF Amplifiers Using Vertical Interconnect Boards. , 2000, , .		0
67	Parametric interpolation of the moment matrix in surface integral equation formulation. International Journal of RF and Microwave Computer-Aided Engineering, 1999, 9, 474-489.	1.2	5
68	Broadband microwave absorption and shielding properties of a poly(aniline). Synthetic Metals, 1999, 105, 115-120.	3.9	190
69	Analysis of finite grid structures with lenses in quasi-optical systems. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 666-672.	4.6	14
70	Order-recursive Gaussian elimination (ORGE) and efficient CAD of microwave circuits. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 2166-2173.	4.6	6
71	Order recursive method of moments (ORMoM) for iterative design applications. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 2595-2604.	4.6	5
72	Minimization of reflection error caused by absorbing boundary condition in the FDTD simulation of planar transmission lines. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 41-46.	4.6	8

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73	Full-wave analysis of quasi-optical structures. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 701-710.	4.6	14
74	A study of the optimum compensation of open microstrip discontinuities using the FDTD method with boundary reflection error cancellation. The International Executive, 1996, 6, 47-57.	0.1	2
75	Feasibility of noncontacting electromagnetic despinning of a satellite by inducing eddy currents in its skin. I. Analytical considerations. IEEE Transactions on Magnetics, 1995, 31, 2471-2477.	2.1	23
76	Feasibility of noncontacting electromagnetic despinning of a satellite by inducing eddy currents in its skin. II. Design implementation. IEEE Transactions on Magnetics, 1995, 31, 2478-2485.	2.1	5
77	A simple technique for minimization of ABC-induced error in the FDTD analysis of microstrip discontinuities. , 1994, 4, 402-404.		10
78	Geometry Rearrangement Technique - A New Method to Minimize Reflection from Absorbing Boundaries in the FDTD Analysis of Planar Transmission Line Components. , 1994, , .		1
79	Efficient analysis of passive microstrip elements in MMICs. The International Executive, 1994, 4, 219-229.	0.1	10
80	Application of spectral domain Prony's method to the FDTD analysis of planar microstrip circuits. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 2391-2398.	4.6	38
81	Full-wave analysis of radiated emission from arbitrarily shaped printed circuit traces. IEEE Transactions on Electromagnetic Compatibility, 1993, 35, 366-377.	2.2	15
82	Dispersion of waves guided along a cylindrical substrate-superstrate layered medium. IEEE Transactions on Antennas and Propagation, 1993, 41, 304-313.	5.1	37
83	An efficient computation of transient scattering by a perfectly conducting cylinder. IEEE Transactions on Antennas and Propagation, 1993, 41, 1509-1515.	5.1	7
84	Efficient prediction of radiation from printed transmission-line discontinuities. IEEE Transactions on Electromagnetic Compatibility, 1993, 35, 159-169.	2.2	17
85	Shielding effectiveness of conductive polymers. IEEE Transactions on Electromagnetic Compatibility, 1992, 34, 47-50.	2.2	45
86	Ray formulation of waves guided by circular cylindrically stratified dielectrics. Radio Science, 1991, 26, 203-209.	1.6	13
87	Measurement of the microwave conductivity of a polymeric material with potential applications in absorbers and shielding. IEEE Transactions on Microwave Theory and Techniques, 1991, 39, 1158-1164.	4.6	101
88	Computation of a branch-cut integral arising in transient electromagnetic scattering by a perfectly conducting cylinder. IEE Proceedings H: Microwaves, Antennas and Propagation, 1989, 136, 367.	0.2	2