

Krishna Naishadham

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Broadband microwave absorption and shielding properties of a poly(aniline). Synthetic Metals, 1999, 105, 115-120. | 3.9 | 190 |
| 2 | 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 |
| 3 | Carbon-Nanotube Loaded Antenna-Based Ammonia Gas Sensor. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2665-2673. | 4.6 | 110 |
| 4 | 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 |
| 5 | 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 |
| 6 | Tunable Miniaturized Patch Antennas With Self-Biased Multilayer Magnetic Films. IEEE Transactions on Antennas and Propagation, 2009, 57, 2190-2193. | 5.1 | 71 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Electronically Tunable Miniaturized Antennas on Magnetolectric Substrates With Enhanced Performance. IEEE Transactions on Magnetics, 2008, 44, 3091-3094. | 2.1 | 49 |
| 11 | Shielding effectiveness of conductive polymers. IEEE Transactions on Electromagnetic Compatibility, 1992, 34, 47-50. | 2.2 | 45 |
| 12 | 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 |
| 13 | 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 |
| 14 | Dispersion of waves guided along a cylindrical substrate-superstrate layered medium. IEEE Transactions on Antennas and Propagation, 1993, 41, 304-313. | 5.1 | 37 |
| 15 | Experimental equivalent-circuit modeling of SMD inductors for printed circuit applications. IEEE Transactions on Electromagnetic Compatibility, 2001, 43, 557-565. | 2.2 | 36 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | Closed-Form Design Formulas for the Equivalent Circuit Characterization of Ferrite Inductors. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 923-932. | 2.2 | 24 |
| 21 | 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 |
| 22 | Measurement-based closed-form modeling of surface-mounted RF components. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 2276-2286. | 4.6 | 22 |
| 23 | Planar circular loop antennas with self-biased magnetic film loading. Electronics Letters, 2008, 44, 332. | 1.0 | 19 |
| 24 | Practical modeling of radio wave propagation in shallow seawater. , 2012, , . | | 18 |
| 25 | Efficient prediction of radiation from printed transmission-line discontinuities. IEEE Transactions on Electromagnetic Compatibility, 1993, 35, 159-169. | 2.2 | 17 |
| 26 | State-space spectral estimation of characteristic electromagnetic responses in wideband data. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 406-409. | 4.0 | 17 |
| 27 | Full-wave analysis of radiated emission from arbitrarily shaped printed circuit traces. IEEE Transactions on Electromagnetic Compatibility, 1993, 35, 366-377. | 2.2 | 15 |
| 28 | Full-wave analysis of quasi-optical structures. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 701-710. | 4.6 | 14 |
| 29 | 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 |
| 30 | Ray formulation of waves guided by circular cylindrically stratified dielectrics. Radio Science, 1991, 26, 203-209. | 1.6 | 13 |
| 31 | A simple technique for minimization of ABC-induced error in the FDTD analysis of microstrip discontinuities. , 1994, 4, 402-404. | | 10 |
| 32 | Efficient analysis of passive microstrip elements in MMICs. The International Executive, 1994, 4, 219-229. | 0.1 | 10 |
| 33 | 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 |
| 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 | Non-invasive detection of cardiac and respiratory rates from stepped frequency continuous wave radar measurements using the state space method. , 2015, , . | | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Sensor-Integrated Aperture Coupled Patch Antenna. , 2019, , . | | 9 |
| 38 | 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 |
| 39 | Integration of carbon nanotube films with SRRs for air quality sensing applications. , 2014, , . | | 8 |
| 40 | An efficient computation of transient scattering by a perfectly conducting cylinder. IEEE Transactions on Antennas and Propagation, 1993, 41, 1509-1515. | 5.1 | 7 |
| 41 | Analysis and design of a partitioned circular loop antenna for omni-directional radiation. , 2011, , . | | 7 |
| 42 | An investigation on the tuning of a microstrip patch antenna using carbon nanotube thin films. , 2014, , . | | 7 |
| 43 | Microwave characterization of graphene films for sensor applications. , 2017, , . | | 7 |
| 44 | Microwave Transducers for Gas Sensing: A Challenging and Promising New Frontier. IEEE Instrumentation and Measurement Magazine, 2022, 25, 42-51. | 1.6 | 7 |
| 45 | 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 |
| 46 | Passive nanotechnology based sensors for the remote detection of environmental pollutants impacting public health. , 2017, , . | | 6 |
| 47 | Highly Selective Ozone Sensors Based on Functionalized Carbon Nanotubes. , 2018, , . | | 6 |
| 48 | 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 |
| 49 | Order recursive method of moments (ORMoM) for iterative design applications. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 2595-2604. | 4.6 | 5 |
| 50 | 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 |
| 51 | A NOVEL 1-D BLOCK PROCESSING APPROACH TO 2-D NMR SPECTROSCOPY. , 2007, , . | | 5 |
| 52 | Design of a graphene loaded slot antenna with 100% bandwidth for wireless sensor applications. , 2014, , . | | 5 |
| 53 | High data rate undersea broadband radio-frequency communications. , 2014, , . | | 5 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | Design and Characterization of a Microwave Transducer for Gas Sensing Applications. Chemosensors, 2022, 10, 127. | 3.6 | 5 |
| 56 | Design of experiments as a microwave CAD tool. Microwave and Optical Technology Letters, 2010, 52, 1020-1024. | 1.4 | 4 |
| 57 | Integration of an X-band microstrip patch array and beamformer for a multifunction antenna array. , 2010, , . | | 4 |
| 58 | Omnidirectional loop antenna for a 5.8 GHz microwave backscatter RFID tag. , 2012, , . | | 4 |
| 59 | RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , . | | 4 |
| 60 | De-embedding intrinsic parameters of high-Q dielectric resonators from noisy measurements. Microwave and Optical Technology Letters, 2006, 48, 1453-1458. | 1.4 | 3 |
| 61 | Parametric extraction of cardiac and respiratory rates from radar measurements of the human body. , 2015, , . | | 3 |
| 62 | Design of a graphene-loaded slotted ring resonator for sensor applications. , 2017, , . | | 3 |
| 63 | A 1-D block processing for non-invasive detection of 2-D cardiac and respiratory rates. , 2018, , . | | 3 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | Signal model to extract intrinsic parameters of high-Q dielectric resonators from noisy measurements. , 2005, , . | | 2 |
| 68 | State-Space System Representation of Time-Domain Responses from Electromagnetic Simulations. , 2005, , . | | 2 |
| 69 | Planar circular loop antennas with self-biased magnetic film loading. , 2008, , . | | 2 |
| 70 | Full wave analysis of a dual-frequency printed slot antenna with microstrip feed. , 2010, , . | | 2 |
| 71 | Design of a compact wideband slot antenna using parasitic reactive tuning. , 2014, , . | | 2 |
| 72 | Overview of vital sign detection-simulation and measurements. , 2016, , . | | 2 |

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|----|---|-----|-----------|
| 73 | Antenna integration with nanotechnology-based thick-film circuits for sensor applications. , 2017, , . | | 2 |
| 74 | Design of Low-Frequency Impedance Measurement Sensors for Respiratory Health. , 2018, , . | | 2 |
| 75 | Geometry Rearrangement Technique - A New Method to Minimize Reflection from Absorbing Boundaries in the FDTD Analysis of Planar Transmission Line Components. , 1994, , . | | 1 |
| 76 | A new absorbing boundary condition structure for waveguide analysis. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 147-152. | 4.6 | 1 |
| 77 | Statistical construction of accurate CAD models using measured data. Microwave and Optical Technology Letters, 2002, 33, 233-238. | 1.4 | 1 |
| 78 | Extraction of rf permeability of ferrite materials using direct measurement of inductors on ferrite cores. , 2011, , . | | 1 |
| 79 | RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , . | | 1 |
| 80 | A robust state space model encompassing early-time transients for electromagnetic signal extrapolation. , 2013, , . | | 1 |
| 81 | RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , . | | 1 |
| 82 | RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , . | | 1 |
| 83 | Accurate Probing of RF Amplifiers Using Vertical Interconnect Boards. , 2000, , . | | 0 |
| 84 | 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 |
| 85 | Antenna design strategies to reduce coupling and interference in wireless communications systems. , 2013, , . | | 0 |
| 86 | RF multicarrier signaling and antenna systems for low SNR broadband underwater communications. , 2013, , . | | 0 |
| 87 | Sweptâ€frequency orderâ€recursive method of moments for the efficient analysis of resonant microwave circuits. Microwave and Optical Technology Letters, 2014, 56, 195-198. | 1.4 | 0 |
| 88 | Preliminary Study of a Cylindrical Microstrip Metasurface Using the State Space Method. , 2019, , . | | 0 |