

Tapan Kumar Sarkar

List of Publications by Year in descending order

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189
papers

1,942
citations

257429

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345203

36
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195
all docs

195
docs citations

195
times ranked

1165
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A deterministic least-squares approach to space-time adaptive processing (STAP). IEEE Transactions on Antennas and Propagation, 2001, 49, 91-103. | 5.1 | 169 |
| 2 | Direction of Arrival (DOA) Estimation Using Electrically Small Tuned Dipole Antennas. IEEE Transactions on Antennas and Propagation, 2006, 54, 3292-3301. | 5.1 | 88 |
| 3 | Mainlobe Interference Suppression Based on Eigen-Projection Processing and Covariance Matrix Reconstruction. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1369-1372. | 4.0 | 67 |
| 4 | Interpolation/Extrapolation of Radar Cross-Section (RCS) Data in the Frequency Domain Using the Cauchy Method. IEEE Transactions on Antennas and Propagation, 2007, 55, 2844-2851. | 5.1 | 57 |
| 5 | Applying Auxiliary Array to Suppress Mainlobe Interference for Ground-Based Radar. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 433-436. | 4.0 | 53 |
| 6 | Computation of the Natural Poles of an Object in the Frequency Domain Using the Cauchy Method. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1137-1140. | 4.0 | 46 |
| 7 | Design and Testing of a Single-Layer Microstrip Ultrawideband 90° Differential Phase Shifter. IEEE Microwave and Wireless Components Letters, 2013, 23, 122-124. | 3.2 | 45 |
| 8 | Application of the Fast Fourier Transform and the Conjugate Gradient Method for Efficient Solution of Electromagnetic Scattering from Both Electrically Large and Small Conducting Bodies. Electromagnetics, 1985, 5, 99-122. | 0.7 | 42 |
| 9 | Fast STAP Method Based on PAST with Sparse Constraint for Airborne Phased Array Radar. IEEE Transactions on Signal Processing, 2016, 64, 4550-4561. | 5.3 | 40 |
| 10 | Deconvolution of Impulse Response from Time-Limited Input and Output: Theory and Experiment. IEEE Transactions on Instrumentation and Measurement, 1985, IM-34, 541-546. | 4.7 | 37 |
| 11 | Time-domain electric-field integral equation with central finite difference. Microwave and Optical Technology Letters, 2001, 31, 429-435. | 1.4 | 37 |
| 12 | Surface Plasmons-Polaritons, Surface Waves, and Zenneck Waves: Clarification of the terms and a description of the concepts and their evolution. IEEE Antennas and Propagation Magazine, 2017, 59, 77-93. | 1.4 | 37 |
| 13 | An efficient method to evaluate the time-domain scattering from arbitrarily shaped conducting bodies. Microwave and Optical Technology Letters, 1998, 17, 321-325. | 1.4 | 34 |
| 14 | Time-domain CFIE for the analysis of transient scattering from arbitrarily shaped 3D conducting objects. Microwave and Optical Technology Letters, 2002, 34, 289-296. | 1.4 | 30 |
| 15 | Transient analysis of electromagnetic scattering from wire structures utilizing an implicit time-domain integral-equation technique. Microwave and Optical Technology Letters, 1998, 17, 66-69. | 1.4 | 29 |
| 16 | Optimization of Subarray Partition for Large Planar Phased Array Radar Based on Weighted K-Means Clustering Method. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1460-1468. | 10.8 | 29 |
| 17 | Nondestructive Determination of the Maturity of the Durian Fruit in the Frequency Domain Using the Change in the Natural Frequency. IEEE Transactions on Antennas and Propagation, 2016, 64, 1779-1787. | 5.1 | 29 |
| 18 | Robust Wideband Adaptive Beamforming With Null Broadening and Constant Beamwidth. IEEE Transactions on Antennas and Propagation, 2019, 67, 5380-5389. | 5.1 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Efficient Direction-of-Arrival Estimation Method Based on Variable-Step-Size LMS Algorithm. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1576-1580. | 4.0 | 29 |
| 20 | Transient scattering by conducting cylinders?implicit solution for the transverse electric case. Microwave and Optical Technology Letters, 1999, 21, 129-134. | 1.4 | 28 |
| 21 | Fast and Robust Variable-Step-Size LMS Algorithm for Adaptive Beamforming. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1206-1210. | 4.0 | 28 |
| 22 | A Physics-Based Green's Function for Analysis of Vertical Electric Dipole Radiation Over an Imperfect Ground Plane. IEEE Transactions on Antennas and Propagation, 2013, 61, 4148-4157. | 5.1 | 27 |
| 23 | Enhancement of Radiation Along the Ground Plane From a Horizontal Dipole Located Close to It. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 294-297. | 4.0 | 26 |
| 24 | An Expose on Internal Resonance, External Resonance, and Characteristic Modes. IEEE Transactions on Antennas and Propagation, 2016, 64, 4695-4702. | 5.1 | 26 |
| 25 | Solution of a time-domain magnetic-field integral equation for arbitrarily closed conducting bodies using an unconditionally stable methodology. Microwave and Optical Technology Letters, 2002, 35, 493-499. | 1.4 | 25 |
| 26 | Time-domain modeling of two-dimensional conducting cylinders utilizing an implicit scheme?TM incidence. Microwave and Optical Technology Letters, 1997, 15, 342-347. | 1.4 | 24 |
| 27 | Analysis of arbitrarily shaped microstrip patch antennas using the Sommerfeld formulation. The International Executive, 1992, 2, 168-178. | 0.1 | 22 |
| 28 | Solution of large dense complex matrix equations utilizing wavelet-like transforms. IEEE Transactions on Antennas and Propagation, 1999, 47, 1628-1632. | 5.1 | 22 |
| 29 | Robust Formulations of the Cauchy Method Suitable for Microwave Duplexers Modeling. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 974-982. | 4.6 | 22 |
| 30 | Two-Dimensional Discrete Complex Image Method (DCIM) for Closed-Form Green's Function of Arbitrary 3D Structures in General Multilayered Media. IEEE Transactions on Antennas and Propagation, 2008, 56, 1350-1357. | 5.1 | 22 |
| 31 | Generation of Free Space Radiation Patterns From Non-Anechoic Measurements Using Chebyshev Polynomials. IEEE Transactions on Antennas and Propagation, 2010, 58, 2785-2790. | 5.1 | 21 |
| 32 | Choice of the Scaling Factor in a Marching-on-in-Degree Time Domain Technique Based on the Associated Laguerre Functions. IEEE Transactions on Antennas and Propagation, 2012, 60, 4463-4467. | 5.1 | 20 |
| 33 | Identification of Multiple Objects Using Their Natural Resonant Frequencies. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 54-57. | 4.0 | 20 |
| 34 | A stable solution of time domain electric field integral equation using weighted Laguerre polynomials. Microwave and Optical Technology Letters, 2007, 49, 2789-2793. | 1.4 | 18 |
| 35 | Performance of a Massively Parallel Higher-Order Method of Moments Code Using Thousands of CPUs and Its Applications. IEEE Transactions on Antennas and Propagation, 2014, 62, 6317-6324. | 5.1 | 18 |
| 36 | An accurate and stable implicit solution for transient scattering and radiation from wire structures. Microwave and Optical Technology Letters, 2002, 34, 354-359. | 1.4 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Application of the Schelkunoff Formulation to the Sommerfeld Problem of a Vertical Electric Dipole Radiating Over an Imperfect Ground. IEEE Transactions on Antennas and Propagation, 2014, 62, 4162-4170. | 5.1 | 17 |
| 38 | Parallelized Hybrid Method With Higher-Order MoM and PO for Analysis of Phased Array Antennas on Electrically Large Platforms. IEEE Transactions on Antennas and Propagation, 2010, 58, 4110-4115. | 5.1 | 15 |
| 39 | Implicit solution of time-domain integral equations for arbitrarily shaped dielectric bodies. Microwave and Optical Technology Letters, 1999, 21, 201-205. | 1.4 | 14 |
| 40 | DOA Estimation using Matrix Pencil and ESPRIT methods using single and multiple snapshots. , 2010, , . | | 14 |
| 41 | Comparison of the Performance Between a Parasitically Coupled and a Direct Coupled Feed for a Microstrip Antenna Array. IEEE Transactions on Antennas and Propagation, 2014, 62, 2813-2818. | 5.1 | 14 |
| 42 | A Study of Negative Permittivity and Permeability for Small Sphere. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1228-1231. | 4.0 | 13 |
| 43 | Effect of Material Parameters on the Resonant Frequencies of a Dielectric Object. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1311-1314. | 4.0 | 13 |
| 44 | Time-domain combined field integral equation using Laguerre polynomials as temporal basis functions. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2004, 17, 251-268. | 1.9 | 12 |
| 45 | A Homomorphic Approach for Through-Wall Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1318-1327. | 6.3 | 12 |
| 46 | Analysis of a Traveling-Wave Waveguide Array With Narrow-Wall Slots Using Higher Order Basis Functions in Method of Moments. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 1390-1393. | 4.0 | 12 |
| 47 | Thin and Compact Dual-Band Four-Element Broadside Patch Antenna Arrays. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 567-570. | 4.0 | 12 |
| 48 | A Fast and Robust DOA Estimation Method Based on JSVD for Co-Prime Array. IEEE Access, 2018, 6, 41697-41705. | 4.2 | 12 |
| 49 | Adaptive null broadening method in wideband beamforming for rapidly moving interference suppression. Electronics Letters, 2018, 54, 1003-1005. | 1.0 | 12 |
| 50 | Broadband constant beamwidth beamforming for suppressing mainlobe and sidelobe interferences. , 2017, , . | | 11 |
| 51 | Robust Wideband Adaptive Beamforming Based on Focusing Transformation and Steering Vector Compensation. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2280-2284. | 4.0 | 11 |
| 52 | Robust Adaptive Beamforming Based on Covariance Matrix Reconstruction With Annular Uncertainty Set and Vector Space Projection. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 130-134. | 4.0 | 11 |
| 53 | Solution of time domain electric field integral equation for arbitrarily shaped dielectric bodies using an unconditionally stable methodology. Radio Science, 2003, 38, n/a-n/a. | 1.6 | 10 |
| 54 | Higher Order MoM Analysis of Traveling-Wave Waveguide Antennas with Matched Waveports. IEEE Transactions on Antennas and Propagation, 2015, 63, 3718-3721. | 5.1 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Accurate Interpolation of Amplitude-Only Frequency Domain Response Based on an Adaptive Cauchy Method. IEEE Transactions on Antennas and Propagation, 2016, 64, 1005-1013. | 5.1 | 10 |
| 56 | Direction-of-arrival (DOA) estimation using a single snapshot of voltages induced in a real array operating in any environment. Microwave and Optical Technology Letters, 2002, 32, 335-340. | 1.4 | 9 |
| 57 | Effect of geometry of planar antenna arrays on Cramer-Rao Bounds for DOA estimation. , 2010, , . | | 9 |
| 58 | Identification of maturity of fruit in the frequency domain using its natural frequencies. , 2012, , . | | 9 |
| 59 | Application of the natural frequency estimation technique for mangosteen classification. , 2014, , . | | 8 |
| 60 | Parallel Hybrid Method of HOMoMâ€“MLFMA for Analysis of Large Antenna Arrays on an Electrically Large Platform. IEEE Transactions on Antennas and Propagation, 2016, 64, 5501-5506. | 5.1 | 8 |
| 61 | Antenna position optimization method based on adaptive genetic algorithm with selfâ€“supervised differential operator for distributed coherent aperture radar. IET Radar, Sonar and Navigation, 2021, 15, 677-685. | 1.8 | 8 |
| 62 | Multiple Constraint Space-Time Adaptive Processing Using Direct Data Domain Least Squares (D3LS) Approach. IEEE National Radar Conference - Proceedings, 2007, , . | 0.0 | 7 |
| 63 | New general formulation of the Cauchy method for the accurate model extraction of higher order microwave systems. Microwave and Optical Technology Letters, 2007, 49, 1957-1961. | 1.4 | 7 |
| 64 | A Multisection Phase Correcting Network for Broadband Quadrature Power Splitter Design. IEEE Microwave and Wireless Components Letters, 2013, 23, 468-470. | 3.2 | 7 |
| 65 | Reply to â€œComments on `A Physics-Based Green's Function for Analysis of Vertical Electric Dipole Radiation Over an Imperfect Ground Plane'â€“\$. IEEE Transactions on Antennas and Propagation, 2014, 62, 4910-4913. | 5.1 | 7 |
| 66 | Greenâ€™s Function Using Schelkunoff Integrals for Horizontal Electric Dipoles Over an Imperfect Ground Plane. IEEE Transactions on Antennas and Propagation, 2016, 64, 1342-1355. | 5.1 | 7 |
| 67 | Survey of Available Experimental Data of Radio Wave Propagation for Wireless Transmission. IEEE Transactions on Antennas and Propagation, 2018, 66, 6665-6672. | 5.1 | 7 |
| 68 | A Stabilized Marching-on-in-Degree Scheme for the Transient Solution of the Electric Field Integral Equation. IEEE Transactions on Antennas and Propagation, 2019, 67, 3232-3240. | 5.1 | 7 |
| 69 | Time-domain analysis of conducting wire antennas and scatterers. Microwave and Optical Technology Letters, 2003, 38, 433-436. | 1.4 | 6 |
| 70 | Improvement of the sources reconstruction techniques: analysis of the SVD algorithm and the RWG basis functions. , 2007, , . | | 6 |
| 71 | A New Doppler-Tolerant Polyphase Pulse Compression Codes Based on Hyperbolic Frequency Modulation. IEEE National Radar Conference - Proceedings, 2007, , . | 0.0 | 6 |
| 72 | Investigation of the natural resonant frequencies of palmyrah palm juice for quality control. , 2015, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Relevance of electromagnetics in wireless systems design. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 8-19. | 1.3 | 6 |
| 74 | A New Decomposition Solver for Complex Electromagnetic Problems [EM Programmer's Notebook]. IEEE Antennas and Propagation Magazine, 2017, 59, 131-140. | 1.4 | 6 |
| 75 | On the Stability of Time-Domain Magnetic Field Integral Equation Using Laguerre Functions. IEEE Transactions on Antennas and Propagation, 2019, 67, 3939-3947. | 5.1 | 6 |
| 76 | A linearized power method for adaptive beamforming in a multipath fading CDMA environment. Microwave and Optical Technology Letters, 2001, 31, 361-365. | 1.4 | 5 |
| 77 | Reconstruction of non-minimum phase function from only amplitude data. Microwave and Optical Technology Letters, 2002, 35, 212-216. | 1.4 | 5 |
| 78 | The Design of an Ultrawideband T-Pulse With a Linear Phase Fitting the FCC Mask. IEEE Transactions on Antennas and Propagation, 2011, 59, 1432-1436. | 5.1 | 5 |
| 79 | Echoing Across the Years: A History of Early Radar Evolution. IEEE Microwave Magazine, 2016, 17, 46-60. | 0.8 | 5 |
| 80 | Use of Computational Electromagnetics to Enhance the Accuracy and Efficiency of Antenna Pattern Measurements. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 214-224. | 2.2 | 5 |
| 81 | Physics-Based Modeling of Experimental Data Encountered in Cellular Wireless Communication. IEEE Transactions on Antennas and Propagation, 2018, 66, 6673-6682. | 5.1 | 5 |
| 82 | MIMO: Does It Make Sense From an Electromagnetic Perspective and Illustrated Using Computational Electromagnetics?. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2019, 4, 269-281. | 2.2 | 5 |
| 83 | Survey of various Z-domain to S-domain transformations. IEEE Transactions on Instrumentation and Measurement, 1986, IM-35, 508-520. | 4.7 | 4 |
| 84 | A novel method of applying finite element method to open region problems: Electrostatic case. , 1993, , . | | 4 |
| 85 | Analysis of transient electromagnetic scattering from dielectric objects using a combined-field integral equation. Microwave and Optical Technology Letters, 2004, 40, 476-481. | 1.4 | 4 |
| 86 | Allowable tolerances in the position of antenna elements in an array amenable to adaptive processing. Microwave and Optical Technology Letters, 2004, 43, 215-221. | 1.4 | 4 |
| 87 | Detection and identification using natural frequency of the perfect electrically conducting (PEC) sphere in the frequency and time domain. , 2011, , . | | 4 |
| 88 | Analysis of transient wave propagation in an arbitrary frequencyâ€dispersive media using the associated laguerre functions in the FDTDâ€MOD method. Microwave and Optical Technology Letters, 2012, 54, 925-930. | 1.4 | 4 |
| 89 | On the relation between Surface Plasmons and Sommerfeld's Surface Electromagnetic Waves. , 2013, , . | | 4 |
| 90 | Electromagnetic Time Reversal: What does it imply?. , 2016, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | A novel technique for analysis of electromagnetic scattering from microstrip antennas of arbitrary shape. , 1996, , . | | 3 |
| 92 | Transmitting and receiving wide-band signals using reciprocity. Microwave and Optical Technology Letters, 2003, 38, 359-362. | 1.4 | 3 |
| 93 | Combined field integral equation for the analysis of scattering from 3D conducting bodies coated with a dielectric material. Microwave and Optical Technology Letters, 2004, 40, 511-516. | 1.4 | 3 |
| 94 | Solving the Time-Domain Magnetic Field Integral Equation for Dielectric Bodies without the Time Variable through the Use of Entire Domain Laguerre Polynomials. Electromagnetics, 2004, 24, 385-408. | 0.7 | 3 |
| 95 | Analysis of Arbitrary Frequency-Dependent Losses Associated With Conducting Structures in a Time-Domain Electric Field Integral Equation. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 678-681. | 4.0 | 3 |
| 96 | An Ultrawideband T-Pulse Fitting the FCC Mask Using a Multiobjective Genetic Algorithm. IEEE Microwave and Wireless Components Letters, 2012, 22, 615-617. | 3.2 | 3 |
| 97 | Influence of the probe when computing far field from near field measurements. , 2016, , . | | 3 |
| 98 | Physics and Mathematics of Radio Wave Propagation in Cellular Wireless Communications. , 2016, , 31-65. | | 3 |
| 99 | Interpolation and Extrapolation of S-Parameter Data of a Microwave Filter in the Frequency Domain Using the Cauchy Method. , 2018, , . | | 3 |
| 100 | Accurate spectral estimation from unequally spaced samples of exponentially damped sinusoidal signals. IEEE Transactions on Instrumentation and Measurement, 1987, IM-36, 32-36. | 4.7 | 2 |
| 101 | A survey of various computer architectures for solution of large matrix equations. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1995, 8, 153-168. | 1.9 | 2 |
| 102 | Effect of random antenna-position errors on a least-squares direct data domain approach for space-time adaptive processing. Microwave and Optical Technology Letters, 2005, 45, 388-393. | 1.4 | 2 |
| 103 | Century bandwidth antennas for use in applications with waveform diversity. , 2008, , . | | 2 |
| 104 | Error associated with the direction of arrival estimation in the presence of material bodies. , 2008, , . | | 2 |
| 105 | Antenna optimization by using NEWUOA. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , . | 0.0 | 2 |
| 106 | Three antenna array design for buried object detection. Microwave and Optical Technology Letters, 2010, 52, 338-343. | 1.4 | 2 |
| 107 | Radiation pattern reconstruction using impulse response from non-anechoic measurements. , 2010, , . | | 2 |
| 108 | A super-resolution source reconstruction method using free space Green'S function. , 2010, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Problems associated with the choice of the proper S-parameters in characterizing antennas and how to rectify it. , 2012, , . | | 2 |
| 110 | Identification of an object located on the ground using its natural poles using both FD and TD data. , 2013, , . | | 2 |
| 111 | What is time reversal and what it cannot do?. , 2014, , . | | 2 |
| 112 | The natural resonant singularity expansion method (SEM) poles for a dielectric sphere in various environments. Microwave and Optical Technology Letters, 2014, 56, 690-694. | 1.4 | 2 |
| 113 | Design and Implementation of ETSI-Standard Reconfigurable Mobile Device for Heterogeneous Network. IEICE Transactions on Communications, 2016, E99.B, 1874-1883. | 0.7 | 2 |
| 114 | Reconstruction of three-dimensional free space radiation pattern using non-anechoic measurements factored by the impulse response of the environment. , 2016, , . | | 2 |
| 115 | Efficient Modeling of Multiscale Structures Using Higher-Order Method of Moments. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2017, 2, 78-83. | 2.2 | 2 |
| 116 | A Nonstandard Schwarz Domain Decomposition Method for Finite-Element Mesh Truncation of Infinite Arrays. IEEE Transactions on Antennas and Propagation, 2018, 66, 6179-6190. | 5.1 | 2 |
| 117 | On the Shape-Dependent Problem of Singularity Cancellation Transformations for Weakly Near-Singular Integrals. IEEE Transactions on Antennas and Propagation, 2021, 69, 5837-5850. | 5.1 | 2 |
| 118 | A Perturbation Theorem for Sensitivity Analysis of SVD Based Algorithms. IETE Journal of Research, 1989, 35, 73-77. | 2.6 | 1 |
| 119 | Application of signal processing algorithms in microwave applications. , 1996, , . | | 1 |
| 120 | Direct time domain solution for dielectric structure with time derivatives of the potential functions by central difference. Microwave and Optical Technology Letters, 2006, 48, 1795-1801. | 1.4 | 1 |
| 121 | Cancellation of Doppler Distortion in Pulse Compression for Targets Moving in an Arbitrary Direction. IEEE National Radar Conference - Proceedings, 2007, , . | 0.0 | 1 |
| 122 | Highly efficient parallel schemes using out-of-core solver for MoM. , 2007, , . | | 1 |
| 123 | Optimization of the end-fire beam pattern of two-dimensional dipole array. , 2008, , . | | 1 |
| 124 | A brief chronology of the origin and developments of wireless communication and supporting electronics. , 2009, , . | | 1 |
| 125 | Near-field and far-field behavior of the field radiated by a vertically oriented dipole antenna above imperfectly conducting earth. , 2009, , . | | 1 |
| 126 | James Clerk Maxwell: The Founder of Electrical Engineering. , 2010, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | HOBBIES: Higher Order Basis Based Integral Equation Solver with automatic goal oriented optimization. , 2010, , . | | 1 |
| 128 | Near-field of antennas and its implications for wireless communications. , 2011, , . | | 1 |
| 129 | Using the Half Fourier Transform for SEM analysis of both early and late time responses in the presence of noise. , 2011, , . | | 1 |
| 130 | Retrieval of free space radiation pattern through non-anechoic data. , 2012, , . | | 1 |
| 131 | Wireless power transfer versus wireless information transfer. , 2012, , . | | 1 |
| 132 | Time-domain method of moments accelerated by Adaptive Cross Approximation algorithm. , 2012, , . | | 1 |
| 133 | Time Reversal Applied to the Time Domain Response of a CRLH Transmission Line. IEEE Microwave and Wireless Components Letters, 2012, 22, 609-611. | 3.2 | 1 |
| 134 | A study of wideband pulse shape distortion due to presence of obstacles. Microwave and Optical Technology Letters, 2013, 55, 1618-1622. | 1.4 | 1 |
| 135 | Examining the theoretical basis for the analysis of surface plasmons in the microwave and terahertz regimes. , 2014, , . | | 1 |
| 136 | Radio-frequency spectrum use - existing contention to harmonious co-existence?., 2015, , . | | 1 |
| 137 | Broadband Cloaking Obtained Using HOBBIES Optimization [EM Programmer's Notebook]. IEEE Antennas and Propagation Magazine, 2018, 60, 112-117. | 1.4 | 1 |
| 138 | Interpolation of Missing Antenna Measurements or RCS Data Using the Matrix Pencil Method. , 2018, , . | | 1 |
| 139 | Using Planar Probe Array Near Field Measurement to Obtain Accurate Far Field Antenna Pattern Efficiently. , 2019, , . | | 1 |
| 140 | Extrapolation of Antenna Near-Field Measurements Using the Iterative Greedy Algorithms. , 2019, , . | | 1 |
| 141 | Adaptive Processing at Multiple Frequencies Using the Same Antenna Array Consisting of Dissimilar Nonuniformly Spaced Elements Over an Imperfectly Conducting Ground. IEEE Transactions on Antennas and Propagation, 2019, 67, 622-625. | 5.1 | 1 |
| 142 | Far-Field Pattern Reconstruction Using an Iterative Hilbert Transform. IEICE Transactions on Communications, 2015, E98.B, 1032-1039. | 0.7 | 1 |
| 143 | Response to comments on de-embedding by James C. Rautio. The International Executive, 1993, 3, 154-155. | 0.1 | 0 |
| 144 | Computation of hybrid modes in waveguides based on a surface integral formulation. The International Executive, 1993, 3, 287-311. | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Analysis of arbitrary shaped microstrip circuits and antennas on finite substrates. , 1993, , . | | 0 |
| 146 | Utilization of wavelet concepts into the finite element method for efficient solution of Maxwell's equations. , 1993, , . | | 0 |
| 147 | A Hybrid Method for Accurate and Efficient Mesh Termination for FEM (Electrostatic Case). , 1994, , . | | 0 |
| 148 | A hybrid method solution of scattering by an elliptic cylinder (TM case). , 1995, , . | | 0 |
| 149 | Solution of large dense complex matrix equations utilizing wavelet-like transforms. Annales Des Telecommunications/Annals of Telecommunications, 1999, 54, 56-67. | 2.5 | 0 |
| 150 | Corrections to ?Time-domain electric-field integral equation with central finite difference?. Microwave and Optical Technology Letters, 2002, 33, 148-148. | 1.4 | 0 |
| 151 | Transmission and reception by UWB antennas. , 2004, , . | | 0 |
| 152 | Using the Laguerre polynomials to get a stable solution of TD-EFIE for thin-wire antennas. , 2004, , . | | 0 |
| 153 | The true meaning of diversity seen through the first principles of fundamental physics. , 2006, , . | | 0 |
| 154 | Time-reversal, MIMO, and reciprocity: Their implications. , 2006, , . | | 0 |
| 155 | Different perspective on channel capacity theorem. , 2007, , . | | 0 |
| 156 | Performance analysis of direct data domain approach and Esprit method for DOA Estimation. , 2007, , . | | 0 |
| 157 | A non-dispersive spiral antenna for UWB applications. , 2007, , . | | 0 |
| 158 | An antenna array for the detection of objects buried in various soil media. , 2007, , . | | 0 |
| 159 | The True Meaning of Electromagnetic Diversity Seen Through the First Principles of Fundamental Physics. , 2007, , . | | 0 |
| 160 | Electromagnetic analysis of large structures by using a hybrid early-time and low-frequency methodology. Microwave and Optical Technology Letters, 2007, 49, 898-904. | 1.4 | 0 |
| 161 | Efficient interpolation of high-frequency domain data by phase smoothing. Radio Science, 2008, 43, . | 1.6 | 0 |
| 162 | Signal enhancement in a near-field MIMO environment through adaptivity on transmit and polarization diversity. , 2008, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | What Is the Appropriate Physical Form of Channel Capacity to Use for Wireless Communication. , 2008, , . | | 0 |
| 164 | Simultaneous estimation of direction of arrival and frequency of the signals using realistic antenna elements. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , . | 0.0 | 0 |
| 165 | Reply by the Authors (for "A Look at the Concept of Channel Capacity from a Maxwellian Viewpoint"). IEEE Antennas and Propagation Magazine, 2009, 51, 164-166. | 1.4 | 0 |
| 166 | Optimizing narrow-wall slotted waveguide arrays using HOBIES. , 2010, , . | | 0 |
| 167 | HOBIES: A new electromagnetic simulator. , 2010, , . | | 0 |
| 168 | MIMO radars or is it smart antennas?. , 2010, , . | | 0 |
| 169 | Characterization of ultrawideband antennas. , 2010, , . | | 0 |
| 170 | Solution of electrically large antenna problems on scalable personal computer clusters. , 2010, , . | | 0 |
| 171 | Improvements in the marching-on-in-degree method for time domain integral equations. , 2011, , . | | 0 |
| 172 | Use of a single snapshot based adaptive processing using a direct data approach. , 2011, , . | | 0 |
| 173 | A cursory historical overview on the evolution of wireless communications. , 2012, , . | | 0 |
| 174 | A study of the numerical accuracy between the matrix elements for a Marching-on-in-degree time domain and a frequency domain MoM. , 2013, , . | | 0 |
| 175 | Robust adaptive beamforming based on interference covariance matrix reconstruction and mismatched steering vector compensation. , 2014, , . | | 0 |
| 176 | Use of the Matrix Pencil method to perform high resolution deembedding in electromagnetic measurements. , 2014, , . | | 0 |
| 177 | Free space radiation pattern reconstruction using non-anechoic data. , 2014, , . | | 0 |
| 178 | Multiple-frequency adaptive antenna processing over imperfect ground planes. , 2014, , . | | 0 |
| 179 | Solution of a million by million complex matrix equation by Gaussian elimination with partial pivoting using parallel out-of-core solvers. , 2014, , . | | 0 |
| 180 | A study of transmission of RF signal with single conductor wire. Microwave and Optical Technology Letters, 2014, 56, 124-127. | 1.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Adaptive methodologies for futuristic phased array systems. , 2015, , . | | 0 |
| 182 | Characterization of safety regions of high power antennas. , 2015, , . | | 0 |
| 183 | The principle of analytic continuation: How to use it in electromagnetics. , 2015, , . | | 0 |
| 184 | Computation of the far field from a nonuniformly spaced antenna elements using a least square method. , 2017, , . | | 0 |
| 185 | A Stabilized Marching-on-in-Degree Solution of Time Domain Combined Field Integral Equation. , 2019, , . | | 0 |
| 186 | Broadband Cloaking obtained using HOBBIES (Higher Order Basis Based Integral Equation Solver) Optimization. , 2019, , . | | 0 |
| 187 | Use of Computational Techniques in Electromagnetics to Enhance the Accuracy and Efficiency of Antenna Pattern Measurements. , 2019, , . | | 0 |
| 188 | A Novel Framework of Singularity Cancellation Transformations for Strongly Near-Singular Integrals. IEEE Transactions on Antennas and Propagation, 2021, 69, 8539-8550. | 5.1 | 0 |
| 189 | Interpolation of Missing Antenna Measurements or RCS Data Using the Matrix Pencil Method. , 2018, , . | | 0 |