

Tapan Kumar Sarkar

List of Publications by Year in descending order

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189
papers

1,942
citations

257450
24
h-index

345221
36
g-index

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

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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

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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

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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

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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

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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

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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

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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

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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