Tapan Kumar Sarkar

List of Publications by Year
in descending order

189 papers	1,942 citations	293460 24 h-index	388640 36 g-index
195 all docs	195 docs citations	195 times ranked	1238 citing authors

#	Article	IF	Citations
1	A Novel Framework of Singularity Cancellation Transformations for Strongly Near-Singular Integrals. IEEE Transactions on Antennas and Propagation, 2021, 69, 8539-8550.	3.1	0
2	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.	2.4	11
3	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.	0.9	8
4	On the Shape-Dependent Problem of Singularity Cancellation Transformations for Weakly Near-Singular Integrals. IEEE Transactions on Antennas and Propagation, 2021, 69, 5837-5850.	3.1	2
5	Robust Wideband Adaptive Beamforming Based on Focusing Transformation and Steering Vector Compensation. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2280-2284.	2.4	11
6	Fast and Robust Variable-Step-Size LMS Algorithm for Adaptive Beamforming. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1206-1210.	2.4	28
7	Robust Wideband Adaptive Beamforming With Null Broadening and Constant Beamwidth. IEEE Transactions on Antennas and Propagation, 2019, 67, 5380-5389.	3.1	29
8	Efficient Direction-of-Arrival Estimation Method Based on Variable-Step-Size LMS Algorithm. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1576-1580.	2.4	29
9	Using Planar Probe Array Near Field Measurement to Obtain Accurate Far Field Antenna Pattern Efficiently. , 2019, , .		1
10	On the Stability of Time-Domain Magnetic Field Integral Equation Using Laguerre Functions. IEEE Transactions on Antennas and Propagation, 2019, 67, 3939-3947.	3.1	6
11	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.	3.1	7
12	A Stabilized Marching-on-in-Degree Solution of Time Domain Combined Field Integral Equation. , 2019, , .		0
13	Broadband Cloaking obtained using HOBBIES (Higher Order Basis Based Integral Equation Solver) Optimization. , 2019, , .		0
14	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.	1.4	5
15	Extrapolation of Antenna Near-Field Measurements Using the Iterative Greedy Algorithms. , 2019, , .		1
16	Use of Computational Techniques in Electromagnetics to Enhance the Accuracy and Efficiency of Antenna Pattern Measurements. , 2019, , .		0
17	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.	3.1	1
18	Broadband Cloaking Obtained Using HOBBIES Optimization [EM Progammer's Notebook]. IEEE Antennas and Propagation Magazine, 2018, 60, 112-117.	1.2	1

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19	Survey of Available Experimental Data of Radio Wave Propagation for Wireless Transmission. IEEE Transactions on Antennas and Propagation, 2018, 66, 6665-6672.	3.1	7
20	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.	1.4	5
21	Interpolation of Missing Antenna Measurements or RCS Data Using the Matrix Pencil Method. , 2018, , .		1
22	Physics-Based Modeling of Experimental Data Encountered in Cellular Wireless Communication. IEEE Transactions on Antennas and Propagation, 2018, 66, 6673-6682.	3.1	5
23	Interpolation and Extrapolation of S-Parameter Data of a Microwave Filter in the Frequency Domain Using the Cauchy Method. , 2018, , .		3
24	A Fast and Robust DOA Estimation Method Based on JSVD for Co-Prime Array. IEEE Access, 2018, 6, 41697-41705.	2.6	12
25	Adaptive null broadening method in wideband beamforming for rapidly moving interference suppression. Electronics Letters, 2018, 54, 1003-1005.	0.5	12
26	A Nonstandard Schwarz Domain Decomposition Method for Finite-Element Mesh Truncation of Infinite Arrays. IEEE Transactions on Antennas and Propagation, 2018, 66, 6179-6190.	3.1	2
27	Interpolation of Missing Antenna Measurements or RCS Data Using the Matrix Pencil Method. , 2018, , .		0
28	Efficient Modeling of Multiscale Structures Using Higher-Order Method of Moments. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2017, 2, 78-83.	1.4	2
29	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.	1.2	37
30	Broadband constant beamwidth beamforming for suppressing mainlobe and sidelobe interferences. , 2017, , .		11
31	A New Decomposition Solver for Complex Electromagnetic Problems [EM Programmer's Notebook]. IEEE Antennas and Propagation Magazine, 2017, 59, 131-140.	1.2	6
32	Computation of the far field from a nonuniformly spaced antenna elements using a least square method. , 2017, , .		0
33	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.	3.1	8
34	Design and Implementation of ETSI-Standard Reconfigurable Mobile Device for Heterogeneous Network. IEICE Transactions on Communications, 2016, E99.B, 1874-1883.	0.4	2
35	Influence of the probe when computing far field from near field measurements. , 2016, , .		3
36	Reconstruction of three-dimensional free space radiation pattern using non-anechoic measurements factored by the impulse response of the environment. , 2016, , .		2

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37	Fast STAP Method Based on PAST with Sparse Constraint for Airborne Phased Array Radar. IEEE Transactions on Signal Processing, 2016, 64, 4550-4561.	3.2	40
38	Electromagnetic Time Reversal: What does it imply?. , 2016, , .		4
39	Echoing Across the Years: A History of Early Radar Evolution. IEEE Microwave Magazine, 2016, 17, 46-60.	0.7	5
40	Relevance of electromagnetics in wireless systems design. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 8-19.	2.3	6
41	An Expose on Internal Resonance, External Resonance, and Characteristic Modes. IEEE Transactions on Antennas and Propagation, 2016, 64, 4695-4702.	3.1	26
42	Physics and Mathematics of Radio Wave Propagation in Cellular Wireless Communications. , 2016, , 31-65.		3
43	Green's Function Using Schelkunoff Integrals for Horizontal Electric Dipoles Over an Imperfect Ground Plane. IEEE Transactions on Antennas and Propagation, 2016, 64, 1342-1355.	3.1	7
44	Accurate Interpolation of Amplitude-Only Frequency Domain Response Based on an Adaptive Cauchy Method. IEEE Transactions on Antennas and Propagation, 2016, 64, 1005-1013.	3.1	10
45	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.	3.1	29
46	Adaptive methodologies for futuristic phased array systems. , 2015, , .		0
47	Higher Order MoM Analysis of Traveling-Wave Waveguide Antennas with Matched Waveports. IEEE Transactions on Antennas and Propagation, 2015, 63, 3718-3721.	3.1	10
48	Radio-frequency spectrum use - existing contention to harmonious co-existence?. , 2015, , .		1
49	Characterization of safety regions of high power antennas. , 2015, , .		0
50	The principle of analytic continuation: How to use it in electromagnetics. , 2015, , .		0
51	Investigation of the natural resonant frequencies of palmyrah palm juice for quality control. , 2015, , .		6
52	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.	7.3	29
53	Far-Field Pattern Reconstruction Using an Iterative Hilbert Transform. IEICE Transactions on Communications, 2015, E98.B, 1032-1039.	0.4	1
54	What is time reversal and what it cannot do?. , 2014, , .		2

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55	Robust adaptive beamforming based on interference covariance matrix reconstruction and mismatched steering vector compensation. , 2014, , .		0
56	Application of the natural frequency estimation technique for mangosteen classification. , 2014, , .		8
57	Use of the Matrix Pencil method to perform high resolution deembedding in electromagnetic measurements. , 2014, , .		0
58	Free space radiation pattern reconstruction using non-anechoic data. , 2014, , .		0
59	Multiple-frequency adaptive antenna processing over imperfect ground planes. , 2014, , .		0
60	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.	3.1	18
61	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.	3.1	14
62	The natural resonant singularity expansion method (SEM) poles for a dielectric sphere in various environments. Microwave and Optical Technology Letters, 2014, 56, 690-694.	0.9	2
63	Solution of a million by million complex matrix equation by Gaussian elimination with partial pivotting using parallel out-of-core solvers. , 2014, , .		0
64	A study of transmission of RF signal with single conductor wire. Microwave and Optical Technology Letters, 2014, 56, 124-127.	0.9	0
65	Examining the theoretical basis for the analysis of surface plasmons in the microwave and terahertz regimes. , 2014, , .		1
66	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.	3.1	7
67	Thin and Compact Dual-Band Four-Element Broadside Patch Antenna Arrays. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 567-570.	2.4	12
68	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.	3.1	17
69	Mainlobe Interference Suppression Based on Eigen-Projection Processing and Covariance Matrix Reconstruction. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1369-1372.	2.4	67
70	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.	3.1	27
71	Identification of Multiple Objects Using Their Natural Resonant Frequencies. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 54-57.	2.4	20
72	Identification of an object located on the ground using its natural poles using both FD and TD data. , 2013, , .		2

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73	A Multisection Phase Correcting Network for Broadband Quadrature Power Splitter Design. IEEE Microwave and Wireless Components Letters, 2013, 23, 468-470.	2.0	7
74	Applying Auxiliary Array to Suppress Mainlobe Interference for Ground-Based Radar. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 433-436.	2.4	53
75	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
76	Design and Testing of a Single-Layer Microstrip Ultrawideband 90° Differential Phase Shifter. IEEE Microwave and Wireless Components Letters, 2013, 23, 122-124.	2.0	45
77	A study of wideband pulse shape distortion due to presence of obstacles. Microwave and Optical Technology Letters, 2013, 55, 1618-1622.	0.9	1
78	A Study of Negative Permittivity and Permeability for Small Sphere. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1228-1231.	2.4	13
79	Effect of Material Parameters on the Resonant Frequencies of a Dielectric Object. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1311-1314.	2.4	13
80	On the relation between Surface Plasmons and Sommerfeld's Surface Electromagnetic Waves. , 2013, , .		4
81	Retrieval of free space radiation pattern through non-anechoic data. , 2012, , .		1
82	Wireless power transfer versus wireless information transfer. , 2012, , .		1
83	Identification of maturity of fruit in the frequency domain using its natural frequencies. , 2012, , .		9
84	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.	2.4	46
85	Time-domain method of moments accelerated by Adaptive Cross Approximation algorithm. , 2012, , .		1
86	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.	3.1	20
87	A cursory historical overview on the evolution of wireless communications. , 2012, , .		0
88	Problems associated with the choice of the proper S-parameters in characterizing antennas and how to rectify it. , 2012, , .		2
89	An Ultrawideband T-Pulse Fitting the FCC Mask Using a Multiobjective Genetic Algorithm. IEEE Microwave and Wireless Components Letters, 2012, 22, 615-617.	2.0	3
90	Time Reversal Applied to the Time Domain Response of a CRLH Transmission Line. IEEE Microwave and Wireless Components Letters, 2012, 22, 609-611.	2.0	1

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91	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.	0.9	4
92	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.	2.4	3
93	Improvements in the marching-on-in-degree method for time domain integral equations. , 2011, , .		0
94	Use of a single snapshot based adaptive processing using a direct data approach. , 2011, , .		0
95	Near-field of antennas and its implications for wireless communications. , 2011, , .		1
96	Using the Half Fourier Transform for SEM analysis of both early and late time responses in the presence of noise. , 2011, , .		1
97	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.	3.1	5
98	Detection and identification using natural frequency of the perfect electrically conducting (PEC) sphere in the frequency and time domain. , 2011, , .		4
99	Three antenna array design for buried object detection. Microwave and Optical Technology Letters, 2010, 52, 338-343.	0.9	2
100	Optimizing narrow-wall slotted waveguide arrays using HOBIES. , 2010, , .		0
101	HOBBIES: A new electromagnetic simulator. , 2010, , .		0
102	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.	3.1	15
103	Radiation pattern reconstruction using impulse response from non-anechoic measurements. , 2010, , .		2
104	James Clerk Maxwell: The Founder of Electrical Engineering. , 2010, , .		1
105	HOBBIES: Higher Order Basis Based Integral Equation Solver with automatic goal oriented optimization. , 2010, , .		1
106	Effect of geometry of planar antenna arrays on Cramer-Rao Bounds for DOA estimation. , 2010, , .		9
107	MIMO radars or is it smart antennas?. , 2010, , .		0
108	DOA Estimation using Matrix Pencil and ESPRIT methods using single and multiple snapshots. , 2010, , .		14

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109	A super-resolution source reconstruction method using free space Green'S function. , 2010, , .		2
110	Characterization of ultrawideband antennas. , 2010, , .		0
111	Generation of Free Space Radiation Patterns From Non-Anechoic Measurements Using Chebyshev Polynomials. IEEE Transactions on Antennas and Propagation, 2010, 58, 2785-2790.	3.1	21
112	Solution of electrically large antenna problems on scalable personal computer clusters. , 2010, , .		0
113	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
114	A Homomorphic Approach for Through-Wall Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1318-1327.	2.7	12
115	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.	2.4	12
116	A brief chronology of the origin and developments of wireless communication and supporting electronics. , 2009, , .		1
117	Near-field and far-field behavior of the field radiated by a vertically oriented dipole antenna above imperfectly conducting earth. , 2009, , .		1
118	Reply by the Authors (for â€œA Look at the Concept of Channel Capacity from a Maxwellian Viewpointâ€). IEEE Antennas and Propagation Magazine, 2009, 51, 164-166.	1.2	0
119	Antenna optimization by using NEWUOA. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	2
120	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.	2.4	26
121	Efficient interpolation of highâ€frequency domain data by phase smoothing. Radio Science, 2008, 43, .	0.8	0
122	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.	3.1	22
123	Century bandwidth antennas for use in applications with waveform diversity. , 2008, , .		2
124	Optimization of the end-fire beam pattern of two-dimensional dipole array. , 2008, , .		1
125	Signal enhancement in a near-field MIMO environment through adaptivity on transmit and polarization diversity. , 2008, , .		0
126	Error associated with the direction of arrival estimation in the presence of material bodies. , 2008, , .		2

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127	What Is the Appropriate Physical Form of Channel Capacity to Use for Wireless Communication. , 2008, , .		0
128	Different perspective on channel capacity theorem. , 2007, , .		0
129	Performance analysis of direct data domain approach and Esprit method for DOA Estimation. , 2007, , .		0
130	A non-dispersive spiral antenna for UWB applications. , 2007, , .		0
131	Improvement of the sources reconstruction techniques: analysis of the SVD algorithm and the RWG basis functions. , 2007, , .		6
132	An antenna array for the detection of objects buried in various soil media. , 2007, , .		0
133	Cancellation of Doppler Distortion in Pulse Compression for Targets Moving in an Arbitrary Direction. IEEE National Radar Conference - Proceedings, 2007, , .	0.0	1
134	Multiple Constraint Space-Time Adaptive Processing Using Direct Data Domain Least Squares (D3LS) Approach. IEEE National Radar Conference - Proceedings, 2007, , .	0.0	7
135	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.	3.1	57
136	Highly efficient parallel schemes using out-of-core solver for MoM. , 2007, , .		1
137	The True Meaning of Electromagnetic Diversity Seen Through the First Principles of Fundamental Physics. , 2007, , .		0
138	Electromagnetic analysis of large structures by using a hybrid early-time and low-frequency methodology. Microwave and Optical Technology Letters, 2007, 49, 898-904.	0.9	0
139	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.	0.9	7
140	A stable solution of time domain electric field integral equation using weighted Laguerre polynomials. Microwave and Optical Technology Letters, 2007, 49, 2789-2793.	0.9	18
141	Robust Formulations of the Cauchy Method Suitable for Microwave Duplexers Modeling. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 974-982.	2.9	22
142	A New Doppler-Tolerant Polyphase Pulse Compression Codes Based on Hyperbolic Frequency Modulation. IEEE National Radar Conference - Proceedings, 2007, , .	0.0	6
143	Direction of Arrival (DOA) Estimation Using Electrically Small Tuned Dipole Antennas. IEEE Transactions on Antennas and Propagation, 2006, 54, 3292-3301.	3.1	88
144	The true meaning of diversity seen through the first principles of fundamental physics. , 2006, , .		0

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145	Time-reversal, MIMO, and reciprocity: Their implications. , 2006, , .		0
146	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.	0.9	1
147	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.	0.9	2
148	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.	1.2	12
149	Analysis of transient electromagnetic scattering from dielectric objects using a combined-field integral equation. Microwave and Optical Technology Letters, 2004, 40, 476-481.	0.9	4
150	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.	0.9	3
151	Allowable tolerances in the position of antenna elements in an array amenable to adaptive processing. Microwave and Optical Technology Letters, 2004, 43, 215-221.	0.9	4
152	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.	0.3	3
153	Transmission and reception by UWB antennas. , 2004, , .		0
154	Using the Laguerre polynomials to get a stable solution of TD-EFIE for thin-wire antennas. , 2004, , .		0
155	Transmitting and receiving wide-band signals using reciprocity. Microwave and Optical Technology Letters, 2003, 38, 359-362.	0.9	3
156	Time-domain analysis of conducting wire antennas and scatterers. Microwave and Optical Technology Letters, 2003, 38, 433-436.	0.9	6
157	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.	0.8	10
158	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.	0.9	9
159	Corrections to ?Time-domain electric-field integral equation with central finite difference?. Microwave and Optical Technology Letters, 2002, 33, 148-148.	0.9	0
160	Time-domain CFIE for the analysis of transient scattering from arbitrarily shaped 3D conducting objects. Microwave and Optical Technology Letters, 2002, 34, 289-296.	0.9	30
161	An accurate and stable implicit solution for transient scattering and radiation from wire structures. Microwave and Optical Technology Letters, 2002, 34, 354-359.	0.9	17
162	Reconstruction of non-minimum phase function from only amplitude data. Microwave and Optical Technology Letters, 2002, 35, 212-216.	0.9	5

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163	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.	0.9	25
164	A deterministic least-squares approach to space-time adaptive processing (STAP). IEEE Transactions on Antennas and Propagation, 2001, 49, 91-103.	3.1	169
165	A linearized power method for adaptive beamforming in a multipath fading CDMA environment. Microwave and Optical Technology Letters, 2001, 31, 361-365.	0.9	5
166	Time-domain electric-field integral equation with central finite difference. Microwave and Optical Technology Letters, 2001, 31, 429-435.	0.9	37
167	Solution of large dense complex matrix equations utilizing wavelet-like transforms. Annales Des Telecommunications/Annals of Telecommunications, 1999, 54, 56-67.	1.6	0
168	Transient scattering by conducting cylinders?implicit solution for the transverse electric case. Microwave and Optical Technology Letters, 1999, 21, 129-134.	0.9	28
169	Implicit solution of time-domain integral equations for arbitrarily shaped dielectric bodies. Microwave and Optical Technology Letters, 1999, 21, 201-205.	0.9	14
170	Solution of large dense complex matrix equations utilizing wavelet-like transforms. IEEE Transactions on Antennas and Propagation, 1999, 47, 1628-1632.	3.1	22
171	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.	0.9	29
172	An efficient method to evaluate the time-domain scattering from arbitrarily shaped conducting bodies. Microwave and Optical Technology Letters, 1998, 17, 321-325.	0.9	34
173	Time-domain modeling of two-dimensional conducting cylinders utilizing an implicit scheme?TM incidence. Microwave and Optical Technology Letters, 1997, 15, 342-347.	0.9	24
174	Application of signal processing algorithms in microwave applications. , 1996, , .		1
175	A novel technique for analysis of electromagnetic scattering from microstrip antennas of arbitary shape. , 1996, , .		3
176	A hybrid method solution of scattering by an elliptic cylinder (TM case). , 1995, , .		0
177	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.	1.2	2
178	A Hybrid Method for Accurate and Efficient Mesh Termination for FEM (Electrostatic Case). , 1994, , .		0
179	Response to comments on de-embedding by James C. Rautio. The International Executive, 1993, 3, 154-155.	0.2	0
180	Computation of hybrid modes in waveguides based on a surface integral formulation. The International Executive, 1993, 3, 287-311.	0.2	0

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181	Analysis of arbitrary shaped microstrip circuits and antennas on finite substrates. , 1993, , .		0
182	A novel method of applying finite element method to open region problems: Electrostatic case. , 1993, , .		4
183	Utilization of wavelet concepts into the finite element method for efficient solution of Maxwell's equations. , 1993, , .		0
184	Analysis of arbitrarily shaped microstrip patch antennas using the Sommerfeld formulation. The International Executive, 1992, 2, 168-178.	0.2	22
185	A Perturbation Theorem for Sensitivity Analysis of SVD Based Algorithms. IETE Journal of Research, 1989, 35, 73-77.	1.8	1
186	Accurate spectral estimation from unequally spaced samples of exponentially damped sinusoidal signals. IEEE Transactions on Instrumentation and Measurement, 1987, IM-36, 32-36.	2.4	2
187	Survey of various Z-domain to S-domain transformations. IEEE Transactions on Instrumentation and Measurement, 1986, IM-35, 508-520.	2.4	4
188	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.	0.3	42
189	Deconvolution of Impulse Response from Time-Limited Input and Output: Theory and Experiment. IEEE Transactions on Instrumentation and Measurement, 1985, IM-34, 541-546.	2.4	37