

Jian-Ming Jin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

205
papers

3,449
citations

32
h-index

47
g-index

301
ext. papers

4,361
ext. citations

3
avg, IF

5.57
L-index

#	Paper	IF	Citations
205	Second-Order Analytic Extension of Eigenvalues for Fast Frequency Sweep Analysis of RF Circuits. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2078-2087	4.1	2
204	Accelerated numerical modeling of RF circuits using network characteristic mode analysis. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2021 , 34, e2898	1	1
203	Fast Frequency Sweep Analysis of Passive Miniature RF Circuits Based on Analytic Extension of Eigenvalues. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 4-14	4.1	3
202	Electrical-thermal Cosimulation of Coaxial TSVs With Temperature-Dependent MOS Effect Using Equivalent Circuit Models. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2247-2256	2	2
201	Efficient large-scale scattering analysis of objects in a stratified medium. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020 , 33, e2656	1	1
200	An enhanced transient solver with dynamic p-adaptation and multirate time integration for electromagnetic and multiphysics simulations. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020 , 33, e2626	1	
199	Signal-Level Models of Pointwise Electromagnetic Exposure for Millimeter Wave Communication. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 3963-3977	4.9	6
198	Electrostatic and magnetostatic properties of random materials. <i>Physical Review E</i> , 2019 , 99, 022120	2.4	4
197	An Advanced EM-Plasma Simulator Based on the DGTD Algorithm With Dynamic Adaptation and Multirate Time Integration Techniques. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2019 , 4, 76-87	1.5	3
196	Multiphysics Modeling in Electromagnetics: Technical Challenges and Potential Solutions. <i>IEEE Antennas and Propagation Magazine</i> , 2019 , 61, 14-26	1.7	12
195	Lumped 3-D Equivalent Thermal Circuit Model for Transient Thermal Analysis of TSV Array 2019 ,		3
194	Sensing Sub-10 nm Wide Perturbations in Background Nanopatterns Using Optical Pseudoelectrodynamics Microscopy (OPEM). <i>Nano Letters</i> , 2019 , 19, 5347-5355	11.5	6
193	Simulation of High-Power Microwave Air Breakdown Modeled by a Coupled Maxwell-Euler System With a Non-Maxwellian EEDF. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1882-1893	4.9	20
192	A General Scheme for the Discontinuous Galerkin Time-Domain Modeling and S-Parameter Extraction of Inhomogeneous Waveports. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 1701-1712	4.1	18
191	Nonlinear multiphysics and multiscale modeling of dynamic ferromagnetic-thermal problems. <i>Journal of Applied Physics</i> , 2018 , 123, 105107	2.5	2
190	A Directional, Closely Spaced Zero-Phase-Shift-Line Loop Array for UHF Near-Field RFID Reader Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 5639-5642	4.9	18
189	Broadband Monostatic RCS and ISAR Computation of Large and Deep Open Cavities. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 4180-4193	4.9	5

188	Large-Scale Scattering Analysis of Arbitrary Objects in a Stratified Medium 2018 ,		2
187	Shielding effectiveness and bandgaps of interpenetrating phase composites based on the Schwarz Primitive surface. <i>Journal of Applied Physics</i> , 2018 , 124, 175102	2.5	12
186	A continuity-preserving and divergence-cleaning algorithm based on purely and damped hyperbolic Maxwell equations in inhomogeneous media. <i>Journal of Computational Physics</i> , 2017 , 334, 392-418	4.1	10
185	. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 1599-1606	4.9	9
184	Design of a Near-Field Nonperiodic Zero Phase Shift-Line Loop Antenna With a Full Dispersion Characterization. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2666-2670	4.9	9
183	A Hybrid FETD-GSM Algorithm for Broadband Full-Wave Modeling of Resonant Waveguide Devices. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 3147-3158	4.1	5
182	A Dynamic β -Adaptive DGTD Algorithm for Electromagnetic and Multiphysics Simulations. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2446-2459	4.9	12
181	A Discontinuous Galerkin Time-Domain Method With Dynamically Adaptive Cartesian Mesh for Computational Electromagnetics. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 3122-3133	4.9	13
180	A Bandpass Frequency Selective Surface With a Low Cross-Polarization Based on Cavities With a Hybrid Boundary. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 654-661	4.9	14
179	Electrical-thermal co-analysis of through silicon via with equivalent circuit model 2017 ,		3
178	Mixed quadratic model for peak spatial-average SAR of coherent multiple antenna devices 2017 ,		2
177	A High-Order Model for Fast Estimation of Electromagnetic Absorption Induced by Multiple Transmitters in Portable Devices. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 6768-6778	4.9	10
176	Diffraction phase microscopy imaging and multi-physics modeling of the nanoscale thermal expansion of a suspended resistor. <i>Scientific Reports</i> , 2017 , 7, 4602	4.9	
175	Electromagnetic characteristics of systems of prolate and oblate ellipsoids. <i>Journal of Applied Physics</i> , 2017 , 122, 185101	2.5	4
174	Electrical-Thermal Co-Simulation for Analysis of High-Power RF/Microwave Components. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 93-102	2	31
173	A Fast Waveguide Port Parameter Extraction Technique for the DGTD Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 2659-2662	3.8	9
172	A 3D finite element analysis of large-scale nonlinear dynamic electromagnetic problems by harmonic balancing and domain decomposition. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2016 , 29, 166-180	1	1
171	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 2718-2729	4.1	7

170	. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2016 , 6, 1620-1629	1.7	14
169	Modeling and Characterization of Zero-Phase-Shift Lines and Optimization of Electrically Large ZPSL Loop Antennas for Near-Field Systems. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 4587-4594	4.9	12
168	A multi-solver framework for electromagnetic scattering from complex objects 2016 ,		1
167	Three-Dimensional Time-Domain Finite-Element Simulation of Dielectric Breakdown Based on Nonlinear Conductivity Model. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 3018-3026	4.9	7
166	Modeling of Plasma Formation During High-Power Microwave Breakdown in Air Using the Discontinuous Galerkin Time-Domain Method. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2016 , 1, 2-13	1.5	22
165	A CFIE-based electromagnetic solver for composite objects 2016 ,		2
164	An interface-enriched generalized finite element analysis for electromagnetic problems with non-conformal discretizations. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2016 , 29, 265-279	1	4
163	Parallel FETI-DP algorithm for efficient simulation of large-scale EM problems. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2016 , 29, 897-914	1	6
162	Large-scale transient electrical-thermal co-simulation of interconnects under electromagnetic pulses. <i>Microwave and Optical Technology Letters</i> , 2016 , 58, 2559-2563	1.2	0
161	A GPU accelerated dynamic p-adaptation for simulation of EM-plasma interaction 2016 ,		2
160	A Particle Swarm Optimization-Based Approach for Predicting Maximum Radiated Emission From PCBs With Dominant Radiators. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1197-1205 ²		17
159	NUMERICAL STUDY OF A TIME-DOMAIN FINITE ELEMENT METHOD FOR NONLINEAR MAGNETIC PROBLEMS IN THREE DIMENSIONS (Invited Paper). <i>Progress in Electromagnetics Research</i> , 2015 , 153, 69-91	3.8	13
158	THEORETICAL FORMULATION OF A TIME-DOMAIN FINITE ELEMENT METHOD FOR NONLINEAR MAGNETIC PROBLEMS IN THREE DIMENSIONS (Invited Paper). <i>Progress in Electromagnetics Research</i> , 2015 , 153, 33-55	3.8	13
157	Time-domain finite element modeling of nonlinear conductivity using Newton's method 2015 ,		1
156	A 3-D Interface-Enriched Generalized FEM for Electromagnetic Problems With Nonconformal Discretizations. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 5637-5649	4.9	6
155	Parallelized multilevel fast multipole algorithm for scattering by objects with anisotropic impedance surfaces. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2015 , 28, 107-119	1	4
154	A Nonconformal FEM-DDM With Tree-Cotree Splitting and Improved Transmission Condition for Modeling Subsurface Detection Problems. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 355-364	8.1	10
153	Acceleration of the Dual-Field Domain Decomposition Algorithm Using MPI+UDA on Large-Scale Computing Systems. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 4706-4715	4.9	7

152	Electrical-Thermal Co-Simulation for DC IR-Drop Analysis of Large-Scale Power Delivery. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014 , 4, 323-331	1.7	29
151	GPU accelerated finite-element computation for electromagnetic analysis. <i>IEEE Antennas and Propagation Magazine</i> , 2014 , 56, 39-62	1.7	14
150	A preconditioned dual-primal finite element tearing and interconnecting method for solving three-dimensional time-harmonic Maxwell's equations. <i>Journal of Computational Physics</i> , 2014 , 274, 920-935	4.1	11
149	A Finite-Element-Based Domain Decomposition Method for Efficient Simulation of Nonlinear Electromechanical Problems. <i>IEEE Transactions on Energy Conversion</i> , 2014 , 29, 309-319	5.4	9
148	Plane Wave Discontinuous Galerkin Method with Lagrange Multipliers for Solving Time-Harmonic Maxwell's Equations in Three Dimensions. <i>Electromagnetics</i> , 2014 , 34, 328-344	0.8	
147	Modal expansion approach for accurately computing resonant modes in a high-Q optical resonator. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 278-284	1.2	1
146	Application of an oblique absorbing boundary condition in the finite element simulation of phased-array antennas. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 178-184	1.2	1
145	Fast and accurate analysis of scattering from anisotropic surface impedance objects 2014 ,		1
144	An Accurate and Efficient Finite Element-Boundary Integral Method With GPU Acceleration for 3-D Electromagnetic Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 6325-6336	4.9	28
143	Modeling of doubly lossy and dispersive media with the time-domain finite-element dual-field domain-decomposition algorithm. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2013 , 26, 28-40	1	4
142	A dual-primal finite-element tearing and interconnecting method combined with tree-cotree splitting for modeling electromechanical devices. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2013 , 26, 151-163	1	9
141	. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 3607-3616	4.9	37
140	Accuracy Improvement of the Second-Kind Integral Equations for Generally Shaped Objects. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 788-797	4.9	16
139	Application of the LU Recombination Method to the FETI-DP Method for Solving Low-Frequency Multiscale Electromagnetic Problems. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5346-5355	2	
138	A hybrid nonconformal FETI/conformal FETI-DP method for arbitrary nonoverlapping domain decomposition modeling 2013 ,		2
137	A novel second-order transmission condition for a fast convergent non-conformal FEM-DDM at any frequencies 2013 ,		2
136	A fast 3-D full-wave inverse method implemented within a domain decomposition framework 2013 ,		1
135	A Comparative Study of Three Finite Element-Based Explicit Numerical Schemes for Solving Maxwell's Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 1450-1457	4.9	69

134	OpenMP parallelized MOD solution of the time-domain EFIE accelerated by the ACA algorithm. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 1206-1212	1.2	
133	Analysis of Electrically Large Problems Using the Augmented EFIE With a Calderón Preconditioner. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 2303-2314	4.9	8
132	A Marching-on-in-Degree Solution of Volume Integral Equations for Transient Electromagnetic Scattering by Bi-Isotropic Objects. <i>Electromagnetics</i> , 2011 , 31, 159-172	0.8	5
131	Marching-on-in-degree solution of volume integral equations for analysis of transient electromagnetic scattering by inhomogeneous dielectric bodies with conduction loss. <i>Microwave and Optical Technology Letters</i> , 2011 , 53, 1104-1109	1.2	12
130	Time-domain augmented EFIE and its marching-on-in-degree solution. <i>Microwave and Optical Technology Letters</i> , 2011 , 53, 1439-1444	1.2	1
129	A Time-Domain Volume Integral Equation and Its Marching-On-in-Degree Solution for Analysis of Dispersive Dielectric Objects. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 969-978	4.9	58
128	Improving the Accuracy of the Second-Kind Fredholm Integral Equations by Using the Buffa-Christiansen Functions. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 1299-1310	4.9	46
127	A Higher-Order Nyström Scheme for a Marching-On-in-Degree Solution of the Magnetic Field Integral Equation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1059-1062	3.8	13
126	Application of Tree-Cotree Splitting to the Time-Domain Finite-Element Analysis of Electromagnetic Problems. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 1590-1600	4.9	20
125	Calderón Preconditioner: From EFIE and MFIE to N-Modal Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 4105-4110	4.9	15
124	Fast Reduced-Order Finite-Element Modeling of Lossy Thin Wires Using Lumped Impedance Elements. <i>IEEE Transactions on Advanced Packaging</i> , 2010 , 33, 212-218		6
123	A Flexible Time-Stepping Scheme for Hybrid Field-Circuit Simulation Based on the Extended Time-Domain Finite Element Method. <i>IEEE Transactions on Advanced Packaging</i> , 2010 , 33, 769-776		13
122	EFIE Analysis of Low-Frequency Problems With Loop-Star Decomposition and Calderón Multiplicative Preconditioner. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 857-867	4.9	54
121	A Comparative Study of Calderón Preconditioners for PMCHWT Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2375-2383	4.9	37
120	Implementation of the Calderón multiplicative preconditioner for the efie solution with curvilinear triangular patches 2009 ,		5
119	Full-wave analysis of antenna-array mutual coupling using the FETI-DPEM algorithm. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , 2009 ,		1
118	Full-wave analysis of antenna-array mutual coupling using the FETI-DEPM algorithm. <i>Microwave and Optical Technology Letters</i> , 2009 , 51, 2088-2093	1.2	2
117	Parallel implementation of the FETI-DPEM algorithm for general 3D EM simulations. <i>Journal of Computational Physics</i> , 2009 , 228, 3255-3267	4.1	26

116	Efficient Full-Wave Analysis of Multilayer Interconnection Structures Using a Novel Domain Decomposition Model-Order Reduction Method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 121-130	4.1	5
115	A Symmetric Electromagnetic-Circuit Simulator Based on the Extended Time-Domain Finite Element Method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 2875-2884	4.1	37
114	Finite-Element Time-Domain Analysis of Electrically and Magnetically Dispersive Periodic Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 3501-3509	4.9	15
113	Implementation of the Second-Order ABC in the FETI-DPEM Method for 3D EM Problems. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 2765-2769	4.9	10
112	A Complete Finite-Element Analysis of Multilayer Anisotropic Transmission Lines From DC to Terahertz Frequencies. <i>IEEE Transactions on Advanced Packaging</i> , 2008 , 31, 326-338		12
111	Incorporation of a Feed Network Into the Time-Domain Finite-Element Modeling of Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 2599-2612	4.9	3
110	Finite-Element Analysis and Modeling of Antennas 2008 , 1531-1593		
109	Application of the tree-cotree splitting for improving matrix conditioning in the full-wave finite-element analysis of high-speed circuits. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 1476-1481	1.2	31
108	Time-domain finite-element modeling of electrically and magnetically dispersive medium via recursive FFT. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 1837-1841	1.2	5
107	Simulation of photonic crystal nanocavity using the FETI-DPEM method. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 2083-2086	1.2	8
106	A New Dual-Primal Domain Decomposition Approach for Finite Element Simulation of 3-D Large-Scale Electromagnetic Problems. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 2803-2810	4.9	94
105	Analysis of Low-Frequency Electromagnetic Transients by an Extended Time-Domain Adaptive Integral Method. <i>IEEE Transactions on Advanced Packaging</i> , 2007 , 30, 301-312		20
104	Adaptive Solution Space Projection for Fast and Robust Wideband Finite-Element Simulation of Microwave Components. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 474-476	2.6	10
103	A Finite Element-Boundary Integral Formulation for Numerical Simulation of Scattering by Discrete Body-of-Revolution Geometries. <i>Electromagnetics</i> , 2007 , 27, 65-86	0.8	3
102	Efficient Calculation of Scattering Variation Due to Uncertain Geometrical Deviation. <i>Electromagnetics</i> , 2007 , 27, 387-398	0.8	8
101	A Leapfrogging-in-Time Integral Equation Solver. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007 , 6, 203-206	3.8	4
100	A Stable Time-Domain Integral Equation Formulation for Composite Structures 2006 ,		2
99	A novel dual-field time-domain finite-element domain-decomposition method for computational electromagnetics. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 1850-1862	4.9	42

98	Numerical Simulation of BOR scattering and radiation using a higher order FEM. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 945-952	4.9	22
97	Analysis of periodic structures via a time-domain finite-element formulation with a Floquet ABC. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 933-944	4.9	27
96	A three-dimensional time-domain finite-element formulation for periodic structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 12-19	4.9	36
95	Total-and scattered-field decomposition technique for the finite-element time-domain method. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 35-41	4.9	16
94	A TDIE-based asynchronous electromagnetic-circuit simulator. <i>IEEE Microwave and Wireless Components Letters</i> , 2006 , 16, 122-124	2.6	12
93	Enhancing the Modeling Capability of the FE-BI Method for Simulation of Cavity-Backed Antennas and Arrays. <i>Electromagnetics</i> , 2006 , 26, 503-515	0.8	7
92	Total- and scattered-field decomposition technique for the finite-element time-domain modeling of buried scatterers. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2005 , 4, 133-137	3.8	8
91	Adaptive finite element-boundary integral analysis for electromagnetic fields in 3-D. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 1710-1720	4.9	11
90	Finite-Element Analysis of Scattering From a Complex BOR Using Spherical Infinite Elements. <i>Electromagnetics</i> , 2005 , 25, 267-304	0.8	4
89	A highly robust and versatile finite element-boundary Integral hybrid code for scattering by BOR objects. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 2274-2281	4.9	9
88	Modeling and simulation of broad-band antennas using the time-domain finite element method. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 4099-4110	4.9	28
87	An Efficient Procedure for the Projection of a Given Field onto Hierarchical Vector Basis Functions of Arbitrary Order. <i>Electromagnetics</i> , 2005 , 25, 81-91	0.8	5
86	FINITE ELEMENT MODELING OF PERIODIC STRUCTURES. <i>Lecture Notes Series, Institute for Mathematical Sciences</i> , 2005 , 129-168	0.1	2
85	An accurate waveguide port boundary condition for the time-domain finite-element method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 3014-3023	4.1	29
84	A parallel FFT accelerated transient field-circuit simulator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 2851-2865	4.1	61
83	An error estimator for the moment method in electromagnetic scattering. <i>Microwave and Optical Technology Letters</i> , 2005 , 44, 320-326	1.2	10
82	Modeling of magnetic loss in the finite-element time-domain method. <i>Microwave and Optical Technology Letters</i> , 2005 , 46, 165-168	1.2	7
81	Perfectly matched layer in three dimensions for the time-domain finite element method applied to radiation problems. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 1489-1499	4.9	26

80	A two-dimensional time-domain finite element formulation for periodic structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 1480-1488	4.9	17
79	Higher Order Finite Element Analysis of Finite-by-Infinite Arrays. <i>Electromagnetics</i> , 2004 , 24, 497-514	0.8	9
78	On the variational formulation of hybrid finite element-boundary integral techniques for electromagnetic analysis. <i>IEEE Transactions on Antennas and Propagation</i> , 2004 , 52, 3037-3047	4.9	36
77	A parallel time-domain adaptive integral method based hybrid field-circuit simulator 2004 ,		1
76	Comments on "A FEM Analysis of Open Boundary Structures Using Edge Elements and a Cylindrical Harmonics Expansion" <i>Electromagnetics</i> , 2004 , 24, 491-491	0.8	1
75	3D-FDTD-PML analysis of left-handed metamaterials. <i>Microwave and Optical Technology Letters</i> , 2004 , 40, 201-205	1.2	33
74	Finite-element analysis of phased-array antennas. <i>Microwave and Optical Technology Letters</i> , 2004 , 40, 490-496	1.2	15
73	Stable coaxial waveguide-port algorithm for the time-domain finite-element method. <i>Microwave and Optical Technology Letters</i> , 2004 , 42, 115-119	1.2	7
72	Perfectly matched layer for the time domain finite element method. <i>Journal of Computational Physics</i> , 2004 , 200, 238-250	4.1	33
71	A posteriori error indicators for 3D electromagnetic FE-BI analysis 2004 ,		1
70	A Comparative Study of Infinite Elements for Two-Dimensional Electromagnetic Scattering Analysis. <i>Electromagnetics</i> , 2004 , 24, 219-236	0.8	2
69	Perfectly matched layers in three dimensions for the time-domain finite element method 2004 ,		2
68	Analysis of conformal antennas on a complex platform. <i>Microwave and Optical Technology Letters</i> , 2003 , 36, 139-142	1.2	6
67	High-order finite-element analysis of periodic absorbers. <i>Microwave and Optical Technology Letters</i> , 2003 , 37, 203-207	1.2	4
66	Analysis of 3D frequency-selective structures using a high-order finite-element method. <i>Microwave and Optical Technology Letters</i> , 2003 , 38, 259-263	1.2	11
65	Three-dimensional orthogonal vector basis functions for time-domain finite element solution of vector wave equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2003 , 51, 59-66	4.9	28
64	Scattering analysis of a large body with deep cavities. <i>IEEE Transactions on Antennas and Propagation</i> , 2003 , 51, 1157-1167	4.9	14
63	Time-domain finite-element simulation of three-dimensional scattering and radiation problems using perfectly matched layers. <i>IEEE Transactions on Antennas and Propagation</i> , 2003 , 51, 296-305	4.9	60

62	Efficient electromagnetic modeling of three-dimensional multilayer microstrip antennas and circuits. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 1628-1635	4.1	32
61	Time-domain finite-element simulation of cavity-backed microstrip patch antennas. <i>Microwave and Optical Technology Letters</i> , 2002 , 32, 251-254	1.2	9
60	A fast, higher order three-dimensional finite-element analysis of microwave waveguide devices. <i>Microwave and Optical Technology Letters</i> , 2002 , 32, 344-352	1.2	21
59	Computation of radar cross section of jet engine inlets. <i>Microwave and Optical Technology Letters</i> , 2002 , 33, 322-325	1.2	10
58	A highly effective preconditioner for solving the finite element-boundary integral matrix equation of 3-D scattering. <i>IEEE Transactions on Antennas and Propagation</i> , 2002 , 50, 1212-1221	4.9	62
57	Study of the effect of host loss on the chirality of composite chiral materials. <i>Radio Science</i> , 2002 , 37, 16-1-16-11	1.4	0
56	An effective algorithm for implementing perfectly matched layers in time-domain finite-element simulation of open-region EM problems. <i>IEEE Transactions on Antennas and Propagation</i> , 2002 , 50, 1615-1623	4.9	18
55	A fast higher-order time-domain finite element-boundary integral method for 3-D electromagnetic scattering analysis. <i>IEEE Transactions on Antennas and Propagation</i> , 2002 , 50, 1192-1202	4.9	59
54	Fast analysis of transient scattering in lossy media. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2002 , 1, 14-17	3.8	52
53	A novel grid-robust higher order vector basis function for the method of moments. <i>IEEE Transactions on Antennas and Propagation</i> , 2001 , 49, 908-915	4.9	45
52	A fast time-domain finite element-boundary integral method for electromagnetic analysis. <i>IEEE Transactions on Antennas and Propagation</i> , 2001 , 49, 1453-1461	4.9	40
51	Time-domain finite-element modeling of dispersive media. <i>IEEE Microwave and Wireless Components Letters</i> , 2001 , 11, 220-222	2.6	71
50	A higher order parallelized multilevel fast multipole algorithm for 3-D scattering. <i>IEEE Transactions on Antennas and Propagation</i> , 2001 , 49, 1069-1078	4.9	41
49	Asymptotic waveform evaluation for scattering by a dispersive dielectric object. <i>Microwave and Optical Technology Letters</i> , 2000 , 24, 232-234	1.2	7
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29	Efficient time-domain and frequency-domain finite-element solution of Maxwell's equations using spectral Lanczos decomposition method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1998 , 46, 1141-1149	4.1	25
28	A total-variation-diminishing finite-difference scheme for the transient response of a lossless transmission line. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1998 , 46, 1193-1196	4.1	3
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25	A hybrid SBR/MoM technique for analysis of scattering from small protrusions on a large conducting body. <i>IEEE Transactions on Antennas and Propagation</i> , 1998 , 46, 1349-1357	4.9	19
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22	The unimoment method applied to elliptical boundaries. <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 564-566	4.9	2
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20	Correction to "Scattering From A Cylindrically Conformal Slotted Waveguide Array Antenna". <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 1442-1443	4.9	
19	Calculation of radiation patterns of microstrip antennas on cylindrical bodies of arbitrary cross section. <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 126-132	4.9	24
18	Fast solution methods in electromagnetics. <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 533-543	4.9	176
17	Complementary perfectly matched layers to reduce reflection errors. <i>Microwave and Optical Technology Letters</i> , 1997 , 14, 284-287	1.2	4
16	Scattering and radiation analysis of microstrip antennas using discrete complex image method and reciprocity theorem. <i>Microwave and Optical Technology Letters</i> , 1997 , 16, 212-216	1.2	13
15	Application of fast multipole method to finite-element boundary-integral solution of scattering problems. <i>IEEE Transactions on Antennas and Propagation</i> , 1996 , 44, 781-786	4.9	28
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13	An efficient algorithm for analyzing large-scale microstrip structures using adaptive integral method combined with discrete complex image method		1
12	Conformal perfectly matched layers for the time domain finite element method		1
11	The effect of host loss on the chirality of composite chiral materials		1
10	Incorporation of frequency-dependent multiport macromodels into a fast time-domain integral equation solver		2
9	An accurate waveguide port boundary condition for the time-domain finite-element method		1

8	Time-domain finite element modeling of dispersive media	2
7	A novel hybridization of higher order finite element and boundary integral methods for electromagnetic scattering and radiation problems	1
6	A hierarchical FFT algorithm (HIL-FFT) for accelerating marching-on-in-time methods	1
5	A hybrid SBR/FE-BI technique for computing the RCS of electrically large objects with deep cavities	5
4	Three-dimensional orthogonal vector basis functions for time-domain finite element solution of vector wave equations	1
3	Investigation of adaptive absorbing boundary condition for finite element solution of three-dimensional scattering	1
2	Computation of the radiation pattern of a microstrip patch antenna in a complex geometry	1
1	Time domain adaptive integral method for the combined field integral equation	1