

Jian-Ming Jin

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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	Fast solution methods in electromagnetics. <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 533-543	4.9	176
204	Numerical simulation of SAR and B1-field inhomogeneity of shielded RF coils loaded with the human head. <i>IEEE Transactions on Biomedical Engineering</i> , 1998 , 45, 650-9	5	102
203	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
202	Discrete complex image method for Green's functions of general multilayer media 2000 , 10, 400-402		80
201	A fast full-wave analysis of scattering and radiation from large finite arrays of microstrip antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 1998 , 46, 1467-1474	4.9	79
200	Time-domain finite-element modeling of dispersive media. <i>IEEE Microwave and Wireless Components Letters</i> , 2001 , 11, 220-222	2.6	71
199	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
198	An efficient algorithm for analyzing large-scale microstrip structures using adaptive integral method combined with discrete complex-image method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2000 , 48, 832-839	4.1	69
197	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
196	A parallel FFT accelerated transient field-circuit simulator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 2851-2865	4.1	61
195	A special higher order finite-element method for scattering by deep cavities. <i>IEEE Transactions on Antennas and Propagation</i> , 2000 , 48, 694-703	4.9	61
194	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
193	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
192	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
191	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
190	Fast analysis of transient scattering in lossy media. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2002 , 1, 14-17	3.8	52
189	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

188	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
187	A field picture of wave propagation in inhomogeneous dielectric lenses. <i>IEEE Antennas and Propagation Magazine</i> , 1999 , 41, 9-18	1.7	44
186	Finite-element analysis of complex axisymmetric radiating structures. <i>IEEE Transactions on Antennas and Propagation</i> , 1999 , 47, 1260-1266	4.9	43
185	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
184	Adaptive integral solution of combined field integral equation. <i>Microwave and Optical Technology Letters</i> , 1998 , 19, 321-328	1.2	41
183	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
182	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
181	A novel efficient algorithm for scattering from a complex BOR using mixed finite elements and cylindrical PML. <i>IEEE Transactions on Antennas and Propagation</i> , 1999 , 47, 620-629	4.9	38
180	. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 3607-3616	4.9	37
179	A Comparative Study of Calderb Preconditioners for PMCHWT Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2375-2383	4.9	37
178	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
177	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
176	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
175	3D-FDTD-PML analysis of left-handed metamaterials. <i>Microwave and Optical Technology Letters</i> , 2004 , 40, 201-205	1.2	33
174	Perfectly matched layer for the time domain finite element method. <i>Journal of Computational Physics</i> , 2004 , 200, 238-250	4.1	33
173	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
172	Efficient electromagnetic modeling of microstrip structures in multilayer media. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1999 , 47, 1810-1818	4.1	32
171	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

- 170 Application of the tree-cotree splitting for improving matrix conditioning in the full-wave finite-element analysis of high-speed circuits. *Microwave and Optical Technology Letters*, **2008**, 50, 1476-1481 31
- 169 Electrical-Thermal Co-Simulation for DC IR-Drop Analysis of Large-Scale Power Delivery. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2014**, 4, 323-331 1.7 29
- 168 An accurate waveguide port boundary condition for the time-domain finite-element method. *IEEE Transactions on Microwave Theory and Techniques*, **2005**, 53, 3014-3023 4.1 29
- 167 An Accurate and Efficient Finite Element-Boundary Integral Method With GPU Acceleration for 3-D Electromagnetic Analysis. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 6325-6336 4.9 28
- 166 Electromagnetics in magnetic resonance imaging. *IEEE Antennas and Propagation Magazine*, **1998**, 40, 7-22 1.7 28
- 165 Modeling and simulation of broad-band antennas using the time-domain finite element method. *IEEE Transactions on Antennas and Propagation*, **2005**, 53, 4099-4110 4.9 28
- 164 Three-dimensional orthogonal vector basis functions for time-domain finite element solution of vector wave equations. *IEEE Transactions on Antennas and Propagation*, **2003**, 51, 59-66 4.9 28
- 163 Application of fast multipole method to finite-element boundary-integral solution of scattering problems. *IEEE Transactions on Antennas and Propagation*, **1996**, 44, 781-786 4.9 28
- 162 Analysis of periodic structures via a time-domain finite-element formulation with a Floquet ABC. *IEEE Transactions on Antennas and Propagation*, **2006**, 54, 933-944 4.9 27
- 161 Parallel implementation of the FETI-DPEM algorithm for general 3D EM simulations. *Journal of Computational Physics*, **2009**, 228, 3255-3267 4.1 26
- 160 Perfectly matched layer in three dimensions for the time-domain finite element method applied to radiation problems. *IEEE Transactions on Antennas and Propagation*, **2005**, 53, 1489-1499 4.9 26
- 159 Efficient time-domain and frequency-domain finite-element solution of Maxwell's equations using spectral Lanczos decomposition method. *IEEE Transactions on Microwave Theory and Techniques*, **1998**, 46, 1141-1149 4.1 25
- 158 Preliminary study of AWE method for FEM analysis of scattering problems. *Microwave and Optical Technology Letters*, **1998**, 17, 7-12 1.2 25
- 157 Calculation of radiation patterns of microstrip antennas on cylindrical bodies of arbitrary cross section. *IEEE Transactions on Antennas and Propagation*, **1997**, 45, 126-132 4.9 24
- 156 Fast frequency-sweep analysis of RF coils for MRI. *IEEE Transactions on Biomedical Engineering*, **1999**, 46, 1387-90 5 24
- 155 Combining PML and ABC for the finite-element analysis of scattering problems. *Microwave and Optical Technology Letters*, **1996**, 12, 192-197 1.2 24
- 154 Modeling of Plasma Formation During High-Power Microwave Breakdown in Air Using the Discontinuous Galerkin Time-Domain Method. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2016**, 1, 2-13 1.5 22
- 153 Numerical Simulation of BOR scattering and radiation using a higher order FEM. *IEEE Transactions on Antennas and Propagation*, **2006**, 54, 945-952 4.9 22

152	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
151	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
150	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
149	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
148	Multilevel fast multipole algorithm for analysis of large-scale microstrip structures 1999 , 9, 508-510		20
147	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
146	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
145	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
144	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
143	A spectral Lanczos decomposition method for solving 3-D low-frequency electromagnetic diffusion by the finite-element method. <i>IEEE Transactions on Antennas and Propagation</i> , 1999 , 47, 242-248	4.9	18
142	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
141	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
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	Scattering from a cylindrically conformal slotted waveguide array antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 1150-1159	4.9	16
138	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
137	Calderón Preconditioner: From EFIE and MFIE to N-Müller Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 4105-4110	4.9	15
136	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
135	Finite-element analysis of phased-array antennas. <i>Microwave and Optical Technology Letters</i> , 2004 , 40, 490-496	1.2	15

134	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
133	. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2016 , 6, 1620-1629	1.7	14
132	GPU accelerated finite-element computation for electromagnetic analysis. <i>IEEE Antennas and Propagation Magazine</i> , 2014 , 56, 39-62	1.7	14
131	Scattering analysis of a large body with deep cavities. <i>IEEE Transactions on Antennas and Propagation</i> , 2003 , 51, 1157-1167	4.9	14
130	Computation of the signal-to-noise ratio of high-frequency magnetic resonance imagers. <i>IEEE Transactions on Biomedical Engineering</i> , 2000 , 47, 1525-33	5	14
129	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
128	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
127	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
126	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
125	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
124	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
123	A Dynamic ρ -Adaptive DGTD Algorithm for Electromagnetic and Multiphysics Simulations. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2446-2459	4.9	12
122	Multiphysics Modeling in Electromagnetics: Technical Challenges and Potential Solutions. <i>IEEE Antennas and Propagation Magazine</i> , 2019 , 61, 14-26	1.7	12
121	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
120	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
119	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
118	A TDIE-based asynchronous electromagnetic-circuit simulator. <i>IEEE Microwave and Wireless Components Letters</i> , 2006 , 16, 122-124	2.6	12
117	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

116	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
115	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
114	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
113	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
112	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
111	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
110	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
109	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
108	Computation of radar cross section of jet engine inlets. <i>Microwave and Optical Technology Letters</i> , 2002 , 33, 322-325	1.2	10
107	An error estimator for the moment method in electromagnetic scattering. <i>Microwave and Optical Technology Letters</i> , 2005 , 44, 320-326	1.2	10
106	Application of a hyperbolic grid generation technique to a conformal PML implementation	1999, 9, 137-139	10
105	. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 1599-1606	4.9	9
104	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
103	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
102	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
101	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
100	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
99	Higher Order Finite Element Analysis of Finite-by-Infinite Arrays. <i>Electromagnetics</i> , 2004 , 24, 497-514	0.8	9

98	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
97	Fast frequency-sweep analysis of cavity-backed microstrip patch antennas. <i>Microwave and Optical Technology Letters</i> , 1999 , 22, 389-393	1.2	9
96	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
95	Simulation of photonic crystal nanocavity using the FETI-DPEM method. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 2083-2086	1.2	8
94	Efficient Calculation of Scattering Variation Due to Uncertain Geometrical Deviation. <i>Electromagnetics</i> , 2007 , 27, 387-398	0.8	8
93	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
92	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 2718-2729	4.1	7
91	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
90	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
89	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
88	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
87	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
86	Asymptotic waveform evaluation for scattering by a dispersive dielectric object. <i>Microwave and Optical Technology Letters</i> , 2000 , 24, 232-234	1.2	7
85	Determination of electromagnetic phased-array driving signals for hyperthermia based on a steady-state temperature criterion. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2000 , 48, 1864-1873	4.1	7
84	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
83	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
82	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
81	Analysis of conformal antennas on a complex platform. <i>Microwave and Optical Technology Letters</i> , 2003 , 36, 139-142	1.2	6

80	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
79	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
78	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
77	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
76	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
75	Implementation of the Calderb multiplier preconditioner for the efie solution with curvilinear triangular patches 2009 ,		5
74	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
73	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
72	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
71	A hybrid SBR/FE-BI technique for computing the RCS of electrically large objects with deep cavities		5
70	Scattering From a Large Planar Slotted Waveguide Array Antenna. <i>Electromagnetics</i> , 1999 , 19, 109-130	0.8	5
69	Electrostatic and magnetostatic properties of random materials. <i>Physical Review E</i> , 2019 , 99, 022120	2.4	4
68	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
67	Electromagnetic characteristics of systems of prolate and oblate ellipsoids. <i>Journal of Applied Physics</i> , 2017 , 122, 185101	2.5	4
66	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
65	Complementary perfectly matched layers to reduce reflection errors. <i>Microwave and Optical Technology Letters</i> , 1997 , 14, 284-287	1.2	4
64	A Leapfrogging-in-Time Integral Equation Solver. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007 , 6, 203-206	3.8	4
63	Finite-Element Analysis of Scattering From a Complex BOR Using Spherical Infinite Elements. <i>Electromagnetics</i> , 2005 , 25, 267-304	0.8	4

62	High-order finite-element analysis of periodic absorbers. <i>Microwave and Optical Technology Letters</i> , 2003 , 37, 203-207	1.2	4
61	Higher order full-wave analysis of multilayer microstrip structures. <i>Microwave and Optical Technology Letters</i> , 2000 , 25, 141-145	1.2	4
60	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
59	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
58	Electrical-thermal co-analysis of through silicon via with equivalent circuit model 2017 ,		3
57	Lumped 3-D Equivalent Thermal Circuit Model for Transient Thermal Analysis of TSV Array 2019 ,		3
56	An iterative measured equation technique for electromagnetic problems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1998 , 46, 25-30	4.1	3
55	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
54	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
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