

# Dan Jiao

## 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.

126  
papers

940  
citations

18  
h-index

24  
g-index

218  
ext. papers

1,274  
ext. citations

3.4  
avg, IF

4.96  
L-index

#	Paper	IF	Citations
126	Method for Analyzing Bit Error Rates (BERs) of Nonlinear Circuits and Systems for High-Performance Signaling. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2022</b> , 70, 732-743	4.1	
125	Fast O(N logN) Algorithm for Generating Rank-Minimized H2-Representation of Electrically Large Volume Integral Equations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2022</b> , 1-1	4.9	
124	Fast Method for Accelerating Convergence of Iterative Partial Differential Equation Solvers by Changing System Matrix to Laplacian Counterpart. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	
123	Method for Accurate and Efficient Eye Diagram Prediction of Nonlinear High-Speed Links. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2021</b> , 1-10	2	2
122	Nested Reduction Algorithms for Generating a Rank-Minimized H2-Matrix From FMM for Electrically Large Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 3945-3956	4.9	3
121	Fast Method for Accelerating Time-Domain Solutions of Ill-Conditioned Electromagnetic Problems by Changing Curl-Curl Operator to Laplacian. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 1-1	4.1	
120	Rapid Modeling and Simulation of Integrated Circuit Layout in Both Frequency and Time Domains From the Perspective of Inverse. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 1270-1283	4.1	6
119	Accuracy Controlled Structure-Preserving $\mathcal{H}^2$ -Matrix-Matrix Product in Linear Complexity With Change of Cluster Bases. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 441-455	4.1	1
118	Multiphysics Modeling and Simulation of 3-D CuGraphene Hybrid Nanointerconnects. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 490-500	4.1	2
117	Symmetric Positive Semi-Definite FDTD Subgridding Algorithms in Both Space and Time for Accurate Analysis of Inhomogeneous Problems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 3047-3059	4.9	3
116	Fast Method for Accelerating Convergence in Iterative Solution of Frequency-Domain Partial Differential Equation Methods <b>2020</b> ,		1
115	Method for Analytically Finding the Nullspace of Stiffness Matrix for Both Zeroth-Order and Higher Order Curl-Conforming Vector Bases in Unstructured Meshes. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 456-468	4.1	6
114	Blossoming Into a Professor [Women in Microwaves]. <i>IEEE Microwave Magazine</i> , <b>2019</b> , 20, 73-75	1.2	
113	Rapid Inverse Modeling of Integrated Circuit Layout in Both Frequency and Time Domain <b>2019</b> ,		2
112	Direct Solution of General $\mathcal{H}^2$ -Matrices With Controlled Accuracy and Concurrent Change of Cluster Bases for Electromagnetic Analysis. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 2114-2127	4.1	2
111	Fast Nested Cross Approximation Algorithm for Solving Large-Scale Electromagnetic Problems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 3271-3283	4.1	5
110	Truncating Matrix-free Time-Domain Method with PML for Solving 3-D Open Region Problems <b>2019</b> ,		1

109	A Father Has Two Sons or a Parent Has Two Children? [Women in Engineering]. <i>IEEE Antennas and Propagation Magazine</i> , <b>2019</b> , 61, 52-56	1.7	0
108	First-Principles-Based Multiphysics Modeling and Simulation of On-Chip Cu-Graphene Hybrid Nanointerconnects in Comparison With Simplified Model-Based Analysis. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , <b>2019</b> , 4, 374-382	1.5	3
107	Multiphysics Modeling and Simulation of 3-D Cu-Graphene Hybrid Nano-Interconnects <b>2019</b> ,		2
106	Fast Algorithms for Converting an FMM-Based Representation of Electrically Large Integral Operators to a Minimal-Rank H2-Matrix <b>2019</b> ,		2
105	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 4821-4832	4.1	0
104	An Alternative Explicit and Unconditionally Stable Time-Domain Finite-Element Method for Electromagnetic Analysis. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , <b>2018</b> , 3, 16-28	1.5	6
103	Accuracy Directly Controlled Fast Direct Solution of General $\{H\}^2$ -Matrices and Its Application to Solving Electrodynamics Volume Integral Equations. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 35-48	4.1	12
102	Fast and rigorous method for solving low-frequency breakdown in full-wave finite-element-based solution of general lossy problems <b>2018</b> ,		2
101	Multiphysics Simulation of High-Speed Graphene-Based Interconnects in Time Domain <b>2018</b> ,		2
100	Symmetric Positive Semi-Definite FDTD Subgridding Algorithm in Both Space and Time <b>2018</b> ,		1
99	Matrix-Free Method for Transient Maxwell-Thermal Cosimulation in Arbitrary Unstructured Meshes. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 5439-5448	4.1	2
98	Matrix-Free Method for Maxwell-Thermal Co-Simulation in Unstructured Meshes <b>2018</b> ,		1
97	An Unsymmetric FDTD Subgridding Algorithm With Unconditional Stability. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 4137-4150	4.9	12
96	Time-Domain Method Having a Naturally Diagonal Mass Matrix Independent of Element Shape for General Electromagnetic Analysis 2-D Formulations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 1202-1214	4.9	5
95	Fast Explicit and Unconditionally Stable FDTD Method for Electromagnetic Analysis. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 2698-2710	4.1	22
94	Fast method for an accurate and efficient nonlinear signaling analysis. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2017</b> , 59, 1312-1319	2	5
93	Hybrid cross approximation for electric field integral equation based scattering analysis <b>2017</b> ,		4
92	Accuracy directly controlled fast direct solutions of general H2-matrices and its application to electrically large electromagnetic analysis <b>2017</b> ,		1

91	Low-Complexity Direct and Iterative Volume Integral Equation Solvers With a Minimal-Rank $H^2$ -Representation for Large-Scale Three-Dimensional Electrodynamical Analysis. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , <b>2017</b> , 2, 210-223	1.5	8
90	Symmetric Positive Semidefinite FDTD Subgridding Algorithms for Arbitrary Grid Ratios Without Compromising Accuracy. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 5084-5095	4.1	10
89	Explicit and unconditionally stable FDTD method without eigenvalue solutions <b>2016</b> ,		2
88	Fast algorithm for nonlinear signaling analysis <b>2016</b> ,		1
87	Solution to the low-frequency breakdown in full-wave finite-element based analysis of general lossy problems <b>2016</b> ,		1
86	New HSS-factorization and inversion algorithms with exact arithmetic for efficient direct solution of large-scale volume integral equations <b>2016</b> ,		3
85	Matrix-Free Time-Domain Method for General Electromagnetic Analysis in 3-D Unstructured Meshes Modified-Basis Formulation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 2371-2382	4.1	4
84	A Linear Complexity Direct Volume Integral Equation Solver for Full-Wave 3-D Circuit Extraction in Inhomogeneous Materials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 897-912	4.1	16
83	An alternative method for making an explicit FDTD unconditionally stable <b>2015</b> ,		2
82	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 3066-3080	4.1	14
81	On the low-frequency breakdown of FDTD <b>2015</b> ,		1
80	An Explicit and Unconditionally Stable FDTD Method for the Analysis of General 3-D Lossy Problems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 4003-4015	4.9	11
79	Accurate matrix-free time-domain method in unstructured meshes <b>2015</b> ,		3
78	Accurate matrix-free time-domain method in three-dimensional unstructured meshes <b>2015</b> ,		2
77	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 4201-4214	4.1	14
76	Formulations of an accurate and stable matrix-free time-domain method in 2-D unstructured meshes <b>2015</b> ,		1
75	A new explicit and unconditionally stable FDTD method for analyzing general lossy problems <b>2015</b> ,		1
74	Accurate and stable matrix-free time-domain method independent of element shape for general electromagnetic analysis <b>2015</b> ,		1

73	Fast Structure-Aware Direct Time-Domain Finite-Element Solver for the Analysis of Large-Scale On-Chip Circuits. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2015</b> , 5, 1477-1487	1.7	2
72	Alternative Method for Making Explicit FDTD Unconditionally Stable. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 4215-4224	4.1	18
71	Accurate matrix-free time-domain method with traditional vector bases in unstructured meshes <b>2015</b> ,		2
70	Minimal-rank H2-matrix-based iterative and direct volume integral equation solvers for large-scale scattering analysis <b>2015</b> ,		2
69	An Explicit and Unconditionally Stable FDTD Method for Electromagnetic Analysis. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 2538-2550	4.1	40
68	Diagonal-preserving explicit and unconditionally stable FDTD method for analyzing general lossy electromagnetic problems <b>2014</b> ,		1
67	Solution of the Electric Field Integral Equation When It Breaks Down. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 4122-4134	4.9	18
66	An explicit and unconditionally stable FDTD method for the analysis of general 3-D lossy problems <b>2014</b> ,		4
65	O(N) iterative and O(NlogN) direct volume integral equation solvers for large-scale electrodynamic analysis <b>2014</b> ,		7
64	A Linear-Complexity Finite-Element-Based Eigenvalue Solver for Efficient Analysis of 3-D On-Chip Integrated Circuits. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2014</b> , 24, 833-835	2.6	1
63	Explicit and Unconditionally Stable Time-Domain Finite-Element Method with a More Than Optimal Speedup. <i>Electromagnetics</i> , <b>2014</b> , 34, 199-209	0.8	12
62	Linear-complexity direct finite element solver accelerated for many right hand sides <b>2014</b> ,		5
61	A simple implicit and unconditionally stable FDTD method by changing only one time instant <b>2014</b> ,		4
60	Fast algorithm for generating a minimal-order model of a general lossy electromagnetic problem <b>2014</b> ,		1
59	Structure-aware time-domain finite-element method for efficient simulation of VLSI circuits <b>2014</b> ,		1
58	Linear-Complexity Direct and Iterative Integral Equation Solvers Accelerated by a New Rank-Minimized $\mathcal{H}^2$ -Representation for Large-Scale 3-D Interconnect Extraction. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 2792-2805	4.1	14
57	Fast $\mathcal{H}$ -Matrix-Based Direct Integral Equation Solver With Reduced Computational Cost for Large-Scale Interconnect Extraction. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2013</b> , 3, 289-298	1.7	27
56	A Deterministic-Solution Based Fast Eigenvalue Solver With Guaranteed Convergence for Finite-Element Based 3-D Electromagnetic Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 3701-3711	4.9	2

55	A New Volume Integral Formulation for Broadband 3-D Circuit Extraction in Inhomogeneous Materials With and Without External Electromagnetic Fields. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 4302-4312	4.1	20
54	Layered $\mathcal{H}$ -Matrix Based Inverse and LU Algorithms for Fast Direct Finite-Element-Based Computation of Electromagnetic Problems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1273-1284	4.9	10
53	Minimal-order circuit model based fast electromagnetic simulation <b>2013</b> ,		4
52	An analytical approach to the low-frequency breakdown of the right hand side and scattered field computation in EFIE <b>2013</b> ,		2
51	Direct Matrix Solution of Linear Complexity for Surface Integral-Equation-Based Impedance Extraction of Complicated 3-D Structures. <i>Proceedings of the IEEE</i> , <b>2013</b> , 101, 372-388	14.3	26
50	H2-matrix-based fast volume integral equation solver for electrodynamic analysis. <i>IET Microwaves, Antennas and Propagation</i> , <b>2013</b> , 7, 1145-1153	1.6	5
49	A new volume integral equation formulation for analyzing 3-D circuits in inhomogeneous dielectrics exposed to external fields <b>2013</b> ,		2
48	Theoretical Study on the Rank of Integral Operators for Broadband Electromagnetic Modeling From Static to Electrodynamic Frequencies. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2013</b> , 3, 2113-2126	1.7	25
47	Explicit and unconditionally stable time-domain finite-element method with a more than $\delta$ optimal speedup <b>2013</b> ,		1
46	A new volume integral formulation for fullwave extraction of 3-D circuits in inhomogeneous dielectrics exposed to external fields <b>2013</b> ,		1
45	A linear complexity direct finite element solver for large-scale 3-D electromagnetic analysis <b>2013</b> ,		2
44	An explicit and unconditionally stable FDTD method for 3-D electromagnetic analysis <b>2013</b> ,		8
43	A Quadratic Eigenvalue Solver of Linear Complexity for 3-D Electromagnetics-Based Analysis of Large-Scale Integrated Circuits. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2012</b> , 31, 380-390	2.5	10
42	From Layout Directly to Simulation: A First-Principle-Guided Circuit Simulator of Linear Complexity and Its Efficient Parallelization. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2012</b> , 2, 687-699	1.7	11
41	Fast Full-Wave Solution That Eliminates the Low-Frequency Breakdown Problem in a Reduced System of Order One. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2012</b> , 2, 1871-1881	1.7	12
40	A theoretical study on the rank's dependence with electric size of the inverse finite element matrix for large-scale electrodynamic analysis <b>2012</b> ,		5
39	Explicit Time-Domain Finite-Element Method Stabilized for an Arbitrarily Large Time Step. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 5240-5250	4.9	44
38	A theoretical proof on the error-bounded low-rank representation of integral operators for large-scale 3-D electrodynamic analysis <b>2012</b> ,		1

37	Parallel Time-Domain Finite-Element Simulator of Linear Speedup and Electromagnetic Accuracy for the Simulation of DiePackage Interaction. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2011</b> , 1, 752-760	1.7	1
36	A Rigorous Solution to the Low-Frequency Breakdown in Full-Wave Finite-Element-Based Analysis of General Problems Involving Inhomogeneous Lossless/Lossy Dielectrics and Nonideal Conductors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 3294-3306	4.1	23
35	Dense Matrix Inversion of Linear Complexity for Integral-Equation-Based Large-Scale 3-D Capacitance Extraction. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 2404-2421	4.1	25
34	An explicit and unconditionally stable time-domain finite-element method of linear complexity for electromagnetics-based simulation of 3-D global interconnect network <b>2011</b> ,		1
33	Existence of $\mathcal{H}$ -Matrix Representations of the Inverse Finite-Element Matrix of Electrodynamic Problems and $\mathcal{H}$ -Based Fast Direct Finite-Element Solvers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> ,	4.1	5
32	A complexity-reduced H-matrix based direct integral equation solver with prescribed accuracy for large-scale electrodynamic analysis <b>2010</b> ,		2
31	Hierarchical Finite-Element Reduction-Recovery Method for Large-Scale Transient Analysis of High-Speed Integrated Circuits. <i>IEEE Transactions on Advanced Packaging</i> , <b>2010</b> , 33, 276-284		8
30	. <i>IEEE Transactions on Advanced Packaging</i> , <b>2010</b> , 33, 524-533		2
29	An LU Decomposition Based Direct Integral Equation Solver of Linear Complexity and Higher-Order Accuracy for Large-Scale Interconnect Extraction. <i>IEEE Transactions on Advanced Packaging</i> , <b>2010</b> , 33, 794-803		18
28	A Theoretically Rigorous Full-Wave Finite-Element-Based Solution of Maxwell's Equations From dc to High Frequencies. <i>IEEE Transactions on Advanced Packaging</i> , <b>2010</b> , 33, 1043-1050		25
27	Foreword Special Section on Recent Progress in Electrical Modeling and Simulation of High-Speed ICs and Packages. <i>IEEE Transactions on Advanced Packaging</i> , <b>2010</b> , 33, 758-759		
26	Eliminating the Low-Frequency Breakdown Problem in 3-D Full-Wave Finite-Element-Based Analysis of Integrated Circuits. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 2633-2645	4.1	6
25	An $\mathcal{H}^2$ -Matrix-Based Integral-Equation Solver of Reduced Complexity and Controlled Accuracy for Solving Electrodynamic Problems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 3147-3159	4.9	51
24	An H2-matrix-based direct integral-equation solver of linear complexity for solving electrodynamic problems <b>2009</b> ,		1
23	Performance analysis of the H-matrix-based Fast Direct Solver for finite-element-based analysis of electromagnetic problems. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , <b>2009</b> ,		5
22	A direct integral-equation solver of linear complexity for large-scale 3D capacitance and impedance extraction <b>2009</b> ,		29
21	A Linear-Time Complex-Valued Eigenvalue Solver for Full-Wave Analysis of Large-Scale On-Chip Interconnect Structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 2021-2029	4.1	4
20	Co-simulation of linear electromagnetic structures and non-linear devices in the time-domain finite-element reduction-recovery method <b>2009</b> ,		2



19	An unconditionally stable time-domain finite element method of significantly reduced computational complexity for large-scale simulation of IC and package problems <b>2009</b> ,		4
18	A Fast-Marching Time-Domain Layered Finite-Element Reduction-Recovery Method for High-Frequency VLSI Design. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 577-581	4-9	7
17	Time-Domain Orthogonal Finite-Element Reduction-Recovery Method for Electromagnetics-Based Analysis of Large-Scale Integrated Circuit and Package Problems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2009</b> , 28, 1138-1149	2.5	11
16	Time-domain orthogonal finite-element reduction-recovery (OrFE-RR) method for fast and accurate broadband simulation of die-package interaction <b>2008</b> ,		2
15	A Recovery Algorithm of Linear Complexity in the Time-Domain Layered Finite Element Reduction Recovery (LAFE-RR) Method for Large-Scale Electromagnetic Analysis of High-Speed ICs. <i>IEEE Transactions on Advanced Packaging</i> , <b>2008</b> , 31, 612-618		5
14	An H-matrix-based method for reducing the complexity of integral-equation-based solutions of electromagnetic problems <b>2008</b> ,		2
13	Efficient Full-Wave Characterization of Discrete High-Density Multiterminal Decoupling Capacitors for High-Speed Digital Systems. <i>IEEE Transactions on Advanced Packaging</i> , <b>2008</b> , 31, 154-162		3
12	A Unified Finite-Element Solution From Zero Frequency to Microwave Frequencies for Full-Wave Modeling of Large-Scale Three-Dimensional On-Chip Interconnect Structures. <i>IEEE Transactions on Advanced Packaging</i> , <b>2008</b> , 31, 873-881		14
11	An H2-matrix-based integral-equation solver of linear-complexity for large-scale full-wave modeling of 3D circuits <b>2008</b> ,		2
10	From O(N) to O(M): Time-domain layered finite-element reduction-recovery methods for large scale electromagnetics-based analysis and design of on-chip circuits <b>2008</b> ,		1
9	Hierarchical and adaptive finite-element reduction-recovery method for large-scale power and signal integrity analysis of high-speed IC and packaging structures <b>2008</b> ,		2
8	A Fast Frequency-Domain Eigenvalue-Based Approach to Full-Wave Modeling of Large-Scale Three-Dimensional On-Chip Interconnect Structures. <i>IEEE Transactions on Advanced Packaging</i> , <b>2008</b> , 31, 890-899		8
7	An alternative analytical reduction scheme in the time-domain layered finite element reduction recovery method for high-frequency IC design. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 2337-2341		1,2
6	A Layered Finite Element Method for Electromagnetic Analysis of Large-Scale High-Frequency Integrated Circuits. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 422-432	4-9	29
5	An Efficient 3D-to-2D Reduction Technique for Frequency-Domain Layered Finite Element Analysis of Large-Scale High-Frequency Integrated Circuits <b>2007</b> ,		3
4	A Recovery Algorithm for Frequency-Domain Layered Finite Element Analysis of Large-Scale High-Frequency Integrated Circuits. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2007</b> , 17, 553-555	2.6	
3	A Time-Domain Layered Finite Element Reduction Recovery (LAFE-RR) Method for High-Frequency VLSI Design. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 3620-3629	4-9	26
2	A Layered Finite Element Method for High-Frequency Modeling of Large-Scale Three-Dimensional On-Chip Interconnect Structures <b>2006</b> ,		3



- 1 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