Hakan Bagci

List of Publications by Year
in descending order

245 papers	4,215 citations	156536 32 h-index	150775 59 g-index
247 all docs	247 docs citations	247 times ranked	3339 citing authors

#	Article	IF	Citations
1	DC IR-Drop Analysis of Power Distribution Networks by a Robin Transmission Condition-Enhanced Discontinuous Galerkin Method. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 89-99.	1.4	6
2	An Explicit Time-Domain Finite-Element Boundary Integral Method for Analysis of Electromagnetic Scattering. IEEE Transactions on Antennas and Propagation, 2022, 70, 6089-6094.	3.1	5
3	A variable fractionalâ€order inductor design. International Journal of Circuit Theory and Applications, 2022, 50, 1388-1399.	1.3	4
4	On the spurious resonance modes of time domain integral equations for analyzing acoustic scattering from penetrable objects. Journal of the Acoustical Society of America, 2022, 151, 1064-1076.	0.5	1
5	3D Concentric Electrodes-Based Alternating Current Electrohydrodynamics: Design, Simulation, Fabrication, and Potential Applications for Bioassays. Biosensors, 2022, 12, 215.	2.3	2
6	A hybridizable discontinuous Galerkin method for simulation of electrostatic problems with floating potential conductors. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2804.	1.2	4
7	Stable and Accurate Marching-on-in-Time Solvers of Time Domain EFIE, MFIE, and CFIE Based on Quasi-Exact Integration Technique. IEEE Transactions on Antennas and Propagation, 2021, 69, 2218-2229.	3.1	9
8	A Memory-Efficient Implementation of Perfectly Matched Layer With Smoothly Varying Coefficients in Discontinuous Galerkin Time-Domain Method. IEEE Transactions on Antennas and Propagation, 2021, 69, 3605-3610.	3.1	8
9	An Explicit Time Marching Scheme for Efficient Solution of the Magnetic Field Integral Equation at Low Frequencies. IEEE Transactions on Antennas and Propagation, 2021, 69, 1213-1218.	3.1	7
10	An Accelerated Nonlinear Contrast Source Inversion Scheme for Sparse Electromagnetic Imaging. IEEE Access, 2021, 9, 54811-54819.	2.6	6
11	MLMC method to estimate propagation of uncertainties in electromagnetic fields scattered from objects of uncertain shapes. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000064.	0.2	0
12	Analysis of Screening Effects on Terahertz Photoconductive Devices Using a Fully-Coupled Multiphysics Approach. Journal of Lightwave Technology, 2021, 39, 7876-7884.	2.7	4
13	On Coding and Decoding Reconfigurable Radiation Pattern Modulation Symbols. Electronics (Switzerland), 2021, 10, 614.	1.8	1
14	Efficient discontinuous Galerkin scheme for analyzing nanostructured photoconductive devices. Optics Express, 2021, 29, 12903.	1.7	6
15	A Multitrace Surface Integral Equation Method for PEC/Dielectric Composite Objects. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1404-1408.	2.4	5
16	On Stability of Discontinuous Galerkin Time-Domain Method for Conductive Medium. , 2021, , .		0
17	EM-Based 2D Corrosion Azimuthal Imaging using Physics Informed Machine Learning PIML. , 2021, , .		7
18	ANN-Assisted CoSaMP Algorithm for Linear Electromagnetic Imaging of Spatially Sparse Domains. IEEE Transactions on Antennas and Propagation, 2021, 69, 6093-6098.	3.1	13

#	Article	IF	Citations
19	Fractional-Order Inductor: Design, Simulation, and Implementation. IEEE Access, 2021, 9, 73695-73702.	2.6	23
20	On the Internal Resonance Modes of Time Domain Surface Integral Equations for Acoustic Transmission Problems. , 2021, , .		0
21	A Novel Discontinous Galerkin Method for the DC IR-Drop Analysis of Power Distribution Networks. , 2021, , .		0
22	A Time-domain Carrier Generation Rate Model for Optoelectronic Device Simulations. , 2021, , .		0
23	Analysis of Electromagnetic Scattering from Composite Objects using a Multi-trace Surface Integral Equation Method. , 2021, , .		0
24	On the Low-Frequency Scaling of Vector Potential Integral Equation Solutions. , 2021, , .		1
25	Explicit Time Marching Schemes for Solving the Magnetic Field Volume Integral Equation. IEEE Transactions on Antennas and Propagation, 2020, 68, 2224-2237.	3.1	6
26	A Novel Subdomain 2D/Q-2D Finite Element Method for Power/Ground Plate-Pair Analysis. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2217-2226.	1.4	1
27	An Explicit Time Domain Finite Element Boundary Integral Method with Element Level Domain Decomposition for Electromagnetic Scattering Analysis. , 2020, , .		2
28	Nonlinear Projected Sparse Optimization Approach Based on Adam Algorithm for Microwave Imaging. , 2020, , .		2
29	Multiphysics Simulation of Plasmonic Photoconductive Devices Using Discontinuous Galerkin Methods. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020, 5, 188-200.	1.4	15
30	DC IR-Drop Analysis of Multilayered Power Distribution Network by Discontinuous Galerkin Method With Thermal Effects Incorporated. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1035-1042.	1.4	10
31	An Efficient 3-D Stochastic HIE-FDTD Algorithm for Investigation of Statistical Variation in Electromagnetic Field. IEEE Transactions on Antennas and Propagation, 2020, 68, 8227-8232.	3.1	12
32	Simplified Modal-Cancellation Approach for Substrate-Integrated-Waveguide Narrow-Band Filter Design. Electronics (Switzerland), 2020, 9, 962.	1.8	3
33	A Local Coupling Multitrace Domain Decomposition Method for Electromagnetic Scattering From Multilayered Dielectric Objects. IEEE Transactions on Antennas and Propagation, 2020, 68, 7099-7108.	3.1	15
34	Scattering theory and cancellation of gravity-flexural waves of floating plates. Physical Review B, 2020, 101, .	1.1	5
35	Modeling Floating Potential Conductors Using Discontinuous Galerkin Method. IEEE Access, 2020, 8, 7531-7538.	2.6	10
36	Steady-State Simulation of Semiconductor Devices Using Discontinuous Galerkin Methods. IEEE Access, 2020, 8, 16203-16215.	2.6	25

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37	Numerical Methods for Electromagnetic Modeling of Graphene: A Review. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020, 5, 44-58.	1.4	17
38	Solving Acoustic Boundary Integral Equations Using High Performance Tile Low-Rank LU Factorization. Lecture Notes in Computer Science, 2020, , 209-229.	1.0	7
39	A Dual-mesh Framework for Multiphysics Simulation of Photoconductive Terahertz Devices. , 2020, , .		2
40	Explicit Solution of Time Domain Scalar Potential Surface Integral Equations for Penetrable Scatterers. , 2020, , .		1
41	Solution of Coupled Hydrodynamic and Volume Integral Equations for Analyzing Electromagnetic Interactions on Nanostructures. , 2020, , .		2
42	Floating-Potential Boundary Conditions using Discontinuous Galerkin Method. , 2020, , .		0
43	A Low-Storage PML Implementation within a High-order Discontinuous Galerkin Time-Domain Method. , 2020, , .		2
44	Graphene nanoelectromagnetics: From radio frequency, terahertz to mid-infrared. , 2019, , 31-59.		1
45	Machine Learning in Electromagnetics: A Review and Some Perspectives for Future Research. , 2019, , .		26
46	Dispersion and Field Control in a Metasurface-Implanted Waveguide. , 2019, , .		0
47	An explicit marching-on-in-time scheme for solving the time domain Kirchhoff integral equation. Journal of the Acoustical Society of America, 2019, 146, 2068-2079.	0.5	9
48	Synthesis and Optimization of Fractional-Order Elements Using a Genetic Algorithm. IEEE Access, 2019, 7, 80233-80246.	2.6	56
49	Extreme Scale FMM-Accelerated Boundary Integral Equation Solver for Wave Scattering. SIAM Journal of Scientific Computing, 2019, 41, C245-C268.	1.3	15
50	Design of a corrugated antipodal Vivaldi antenna with stable pattern. , 2019, , .		6
51	Computation of Electromagnetic Fields Scattered From Objects With Uncertain Shapes Using Multilevel Monte Carlo Method. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2019, 4, 37-50.	1.4	11
52	A Unit-Cell Discontinuous Galerkin Scheme for Analyzing Plasmonic Photomixers. , 2019, , .		2
53	A 2D/Q-2D Subdomain Finite Element Method for Irregular Power/Ground Plate-Pair Analysis with Waveport Excitation. , 2019, , .		0
54	A Higher-order Explicit Marching-on-in-time for Analysis of Transient Acoustic Scattering from Rigid Objects. , 2019, , .		1

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55	An FMM-FFT Accelerated SIE Simulator for Analyzing EM Wave Propagation in Mine Environments Loaded With Conductors. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 3-15.	1.4	13
56	A Wavelet-Enhanced PWTD-Accelerated Time-Domain Integral Equation Solver for Analysis of Transient Scattering From Electrically Large Conducting Objects. IEEE Transactions on Antennas and Propagation, 2018, 66, 2458-2470.	3.1	14
57	VoxHenry: FFT-Accelerated Inductance Extraction for Voxelized Geometries. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1723-1735.	2.9	31
58	Towards fractional-order capacitors with broad tunable constant phase angles: multi-walled carbon nanotube-polymer composite as a case study. Journal Physics D: Applied Physics, 2018, 51, 065602.	1.3	25
59	Mixed Discretization of CFIE in the Framework of MLFMA. , 2018, , .		1
60	Experimental Verification of a Fractional-Order Wien Oscillator Built Using Solid-State Capacitors. , 2018, , .		7
61	An Explicit Marching-on-in-time Scheme for Solving the Kirchhoff Integral Equation. , 2018, , .		1
62	Numerical Modeling of Graphene Nano-Ribbon by DGTD Taking into Account the Spatial Dispersion Effects. , 2018, , .		0
63	An Explicit MOT Scheme for solving the NystrÃ¶m-Discretized TD-MFIE. , 2018, , .		1
64	A New Efficient Domain Decomposition Method for Highly Irregular Via Patterns. , 2018, , .		0
65	Waveguide Dispersion Tailoring by Using Embedded Impedance Surfaces. Physical Review Applied, 2018, 10, .	1.5	14
66	An ultra-broadband single-component fractional-order capacitor using MoS2-ferroelectric polymer composite. Applied Physics Letters, 2018, 113, .	1.5	46
67	A volume integral equation solver for quantum-corrected transient analysis of scattering from plasmonic nanostructures. , 2018, , .		0
68	A volume integral equation solver for quantum-corrected transient analysis of scattering from plasmonic nanostructures. , 2018, , .		0
69	Scattering analysis of silver nanoparticles for solar cell applications using integral equations. , 2018, , .		0
70	A novel hybrid 2D/Q-2D finite element method for power/ground plane analysis. , 2018, , .		0
71	Exact Absorbing Boundary Conditions for Periodic Three-Dimensional Structures: Derivation and Implementation in Discontinuous Galerkin Time-Domain Method. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 108-120.	1.4	12
72	Discontinuous Galerkin Time-Domain Modeling of Graphene Nanoribbon Incorporating the Spatial Dispersion Effects. IEEE Transactions on Antennas and Propagation, 2018, 66, 3590-3598.	3.1	18

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73	An Efficient Mode-Based Domain Decomposition Hybrid 2-D/Q-2D Finite-Element Time-Domain Method for Power/Ground Plate-Pair Analysis. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4357-4366.	2.9	10
74	Fractional-Order Hartley Oscillator. , 2018, , .		11
75	Low-Threshold Lasing and Coherent Perfect Absorption in Generalized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:mrow></mml:math> -Symmetric Optical Structures. Physical Review Applied, 2018, 10, .	1.5	33
76	An FFT-accelerated inductance extractor for voxelized structures. , 2018, , .		0
77	Mixed Discretization of the Time-Domain MFIE at Low Frequencies. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1565-1568.	2.4	3
78	Transient Thermal Analysis of 3-D Integrated Circuits Packages by the DGTD Method. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 862-871.	1.4	26
79	Discontinuous Galerkin Time-Domain Analysis of Power-Ground Planes Taking Into Account Decoupling Capacitors. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 1476-1485.	1.4	8
80	A modified CoSaMP algorithm for electromagnetic imaging of two dimensional domains. , 2017, , .		2
81	Sparse Nonlinear Electromagnetic Imaging Accelerated With Projected Steepest Descent Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3810-3822.	2.7	16
82	Tunable fractional-order capacitor using layered ferroelectric polymers. AIP Advances, 2017, 7, .	0.6	23
83	Ferroelectric Fractionalâ€Order Capacitors. ChemElectroChem, 2017, 4, 2807-2813.	1.7	31
84	Localized surface plate modes via flexural Mie resonances. Physical Review B, 2017, 95, .	1.1	10
85	On the initial condition problem of the time domain PMCHWT surface integral equation. , 2017, , .		0
86	Transient Analysis of Dispersive Power-Ground Plate Pairs With Arbitrarily Shaped Antipads by the DGTD Method With Wave Port Excitation. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 172-183.	1.4	36
87	Numerical modeling of PCB power/ground plate-pairs by DGTD method taking into account decoupling capacitors. , 2017, , .		0
88	Quantum-corrected transient analysis of plasmonic nanostructures. Optics Express, 2017, 25, 5891.	1.7	2
89	Metallic nanoparticles in dielectrics: A comparative study. , 2017, , .		0
90	An explicit MOT scheme for solving the TD-EFVIE on nonlinear and dispersive scatterers. , 2017, , .		3

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91	Discontinuous Galerkin time-domain analysis of power/ground plate pairs with wave port excitation. , 2017, , .		0
92	Transient analysis of scattering from ferromagnetic objects using Landau-Lifshitz-Gilbert and volume integral equations. , 2016, , .		2
93	DGTD analysis of EM interactions on microwave systems loaded with circuit interfaced thin wires. , 2016, , .		1
94	Three-dimensional sparse electromagnetic imaging accelerated by projected steepest descent. , 2016, , .		1
95	Density-near-zero using the acoustically induced transparency of a Fano acoustic resonator. Europhysics Letters, 2016, 116, 46004.	0.7	9
96	Transient Analysis of Lumped Circuit Networks-Loaded Thin Wires By DGTD Method. IEEE Transactions on Antennas and Propagation, 2016, 64, 2358-2369.	3.1	8
97	Transient analysis of electromagnetic wave interactions on plasmonic nanostructures using a surface integral equation solver. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1747.	0.8	10
98	Cloaking through cancellation of diffusive wave scattering. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160276.	1.0	12
99	Mirror-backed Dark Alumina: A Nearly Perfect Absorber for Thermoelectronics and Thermophotovotaics. Scientific Reports, 2016, 6, 19984.	1.6	44
100	An MOT-TDIE solver for analyzing transient fields on graphene-based devices. , 2016, , .		1
101	A sparsity-regularized Born iterative method for reconstruction of two-dimensional piecewise continuous inhomogeneous domains. , 2016, , .		3
102	Quantum-corrected plasmonic field analysis using a time domain PMCHWT integral equation. , 2016, , .		1
103	An explicit MOT-TD-VIE solver for time varying media. , 2016, , .		0
104	An explicit MOT-TD-VIE solver for time varying media. , 2016, , .		0
105	Quantum-corrected plasmonic field analysis using a time domain PMCHWT integral equation. , 2016, , .		0
106	Localized acoustic surface modes. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	5
107	A Scalable Parallel PWTD-Accelerated SIE Solver for Analyzing Transient Scattering From Electrically Large Objects. IEEE Transactions on Antennas and Propagation, 2016, 64, 663-674.	3.1	10
108	Parallel PWTD-Accelerated Explicit Solution of the Time-Domain Electric Field Volume Integral Equation. IEEE Transactions on Antennas and Propagation, 2016, 64, 2378-2388.	3.1	6

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109	A DGTD Scheme for Modeling the Radiated Emission From DUTs in Shielding Enclosures Using Near Electric Field Only. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 457-467.	1.4	11
110	Acoustically induced transparency using Fano resonant periodic arrays. Journal of Applied Physics, 2015, 118, .	1.1	43
111	SPARSE ELECTROMAGNETIC IMAGING USING NONLINEAR LANDWEBER ITERATIONS. Progress in Electromagnetics Research, 2015, 152, 77-93.	1.6	16
112	Transient analysis of plasmonic nanostructures using an MOT-PMCHWT solver. , 2015, , .		0
113	Transient analysis of electromagnetic wave interactions on ferrite structures using Landau-Lifshitz-Gilbert and volume integral equations. , 2015, , .		0
114	An explicit MOT-TDVIE scheme for analyzing electromagnetic field interactions on nonlinear scatterers. , 2015, , .		3
115	A hybrid DGTD scheme for transient analysis of electromagnetic field interactions on microwave systems loaded with thin wires. , 2015, , .		0
116	Recent advances in marching-on-in-time schemes for solving time domain volume integral equations. , 2015, , .		0
117	Analysis of transient electromagnetic interactions on nanodevices using a quantum corrected integral equation approach. , 2015, , .		0
118	A wavelet-based PWTD algorithm-accelerated time domain surface integral equation solver. , 2015, , .		0
119	An efficient explicit marching on in time solver for magnetic field volume integral equation. , 2015, , .		1
120	A sparse electromagnetic imaging scheme using nonlinear landweber iterations. , 2015, , .		0
121	Random walk based context-aware activity recommendation for location based social networks. , 2015, , .		10
122	DGTD Analysis of Electromagnetic Scattering From Penetrable Conductive Objects With IBC. IEEE Transactions on Antennas and Propagation, 2015, 63, 5686-5697.	3.1	36
123	Analysis of transient electromagnetic wave interactions on graphene-based devices using integral equations. , 2015, , .		0
124	A Stable Marching On-In-Time Scheme for Solving the Time-Domain Electric Field Volume Integral Equation on High-Contrast Scatterers. IEEE Transactions on Antennas and Propagation, 2015, 63, 3098-3110.	3.1	28
125	Thermal invisibility based on scattering cancellation and mantle cloaking. Scientific Reports, 2015, 5, 9876.	1.6	72
126	MOT Solution of the PMCHWT Equation for Analyzing Transient Scattering from Conductive Dielectrics. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 507-510.	2.4	11

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127	An ME-PC Enhanced HDMR Method for Efficient Statistical Analysis of Multiconductor Transmission Line Networks. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 685-696.	1.4	56
128	A Resistive Boundary Condition Enhanced DGTD Scheme for the Transient Analysis of Graphene. IEEE Transactions on Antennas and Propagation, 2015, 63, 3065-3076.	3.1	38
129	Graphene metascreen for designing compact infrared absorbers with enhanced bandwidth. Nanotechnology, 2015, 26, 164002.	1.3	52
130	Generation of Graphene Surface Plasmons and Their Applications in Beam Steering. , 2015, , .		0
131	A Preconditioned Inexact Newton Method for Nonlinear Sparse Electromagnetic Imaging. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 532-536.	1.4	32
132	A convergence analysis for a sweeping preconditioner for block tridiagonal systems of linear equations. Numerical Linear Algebra With Applications, 2015, 22, 371-392.	0.9	4
133	A discontinuous Galerkin method for solving transient Maxwell equations with nonlinear material properties. , 2014, , .		0
134	On the Static Loop Modes in the Marching-on-in-Time Solution of the Time-Domain Electric Field Integral Equation. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 317-320.	2.4	11
135	Shrinkage-Thresholding Enhanced Born Iterative Method for Solving 2D Inverse Electromagnetic Scattering Problem. IEEE Transactions on Antennas and Propagation, 2014, 62, 3878-3884.	3.1	33
136	Analysis of transient plasmonic interactions using an MOT-PMCHWT integral equation solver. , 2014, , .		0
137	An explicit marching on-in-time solver for the time domain volume magnetic field integral equation. , 2014, , .		0
138	A parallel wavelet-enhanced PWTD algorithm for analyzing transient scattering from electrically very large PEC targets. , 2014, , .		0
139	Analysis of electromagnetic wave interactions on nonlinear scatterers using time domain volume integral equations. , 2014, , .		0
140	An FMM-FFT accelerated integral equation solver for characterizing electromagnetic wave propagation in mine tunnels and galleries loaded with conductors. , 2014, , .		2
141	A FMM-FFT accelerated hybrid volume surface integral equation solver for electromagnetic analysis of re-entry space vehicles. , 2014, , .		3
142	Acoustic Fano resonators. , 2014, , .		2
143	A nonlinear plasmonic resonator for three-state all-optical switching. Optics Express, 2014, 22, 6966.	1.7	30
144	Transient analysis of electromagnetic wave interactions on high-contrast scatterers using volume electric field integral equation. , 2014, , .		0

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145	Parallel time domain solvers for electrically large transient scattering problems. , 2014, , .		0
146	On the DC loop modes in the MOT solution of the time domain EFIE. , 2014, , .		0
147	A Higher Order Space-Time Galerkin Scheme for Time Domain Integral Equations. IEEE Transactions on Antennas and Propagation, 2014, 62, 6183-6191.	3.1	74
148	Sparse contrast-source inversion using linear-shrinkage-enhanced inexact Newton method. , 2014, , .		2
149	An IBC enhanced DGTD scheme for transient analysis of EM interactions with graphene. , 2014, , .		2
150	Nonlinear microwave imaging using Levenberg-Marquardt method with iterative shrinkage thresholding. , 2014, , .		3
151	Low-Frequency Scaling of the Standard and Mixed Magnetic Field and MÃ¼ller Integral Equations. IEEE Transactions on Antennas and Propagation, 2014, 62, 822-831.	3.1	18
152	A Hybrid Time-Domain Discontinuous Galerkin-Boundary Integral Method for Electromagnetic Scattering Analysis. IEEE Transactions on Antennas and Propagation, 2014, 62, 2841-2846.	3.1	165
153	Porting an explicit time-domain volume-integral-equation solver on gpus with openacc [open problems in cem]. IEEE Antennas and Propagation Magazine, 2014, 56, 265-277.	1.2	4
154	A discontinuous galerkin time domain-boundary integral method for analyzing transient electromagnetic scattering. , 2014, , .		2
155	Cosimulation of Electromagnetics-Circuit Systems Exploiting DGTD and MNA. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1052-1061.	1.4	28
156	Platonic Scattering Cancellation for Bending Waves in a Thin Plate. Scientific Reports, 2014, 4, 4644.	1.6	27
157	Exciting Graphene Surface Plasmon Polaritons through Light and Sound Interplay. Physical Review Letters, 2013, 111, 237404.	2.9	103
158	On spurious resonant modes in the MOT solution of time domain EFIE. , 2013, , .		0
159	An Adaptive Multi-Element Probabilistic Collocation Method for Statistical EMC/EMI Characterization. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 1154-1168.	1.4	31
160	Accurate characterization of 3D diffraction gratings using time domain discontinuous Galerkin method with exact absorbing boundary conditions. , 2013, , .		1
161	Quasi-exact evaluation of time domain MFIE MOT matrix elements. , 2013, , .		1
162	Time-Domain Single-Source Integral Equations for Analyzing Scattering From Homogeneous Penetrable Objects. IEEE Transactions on Antennas and Propagation, 2013, 61, 1239-1254.	3.1	9

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163	A Space-Time Mixed Galerkin Marching-on-in-Time Scheme for the Time-Domain Combined Field Integral Equation. IEEE Transactions on Antennas and Propagation, 2013, 61, 1228-1238.	3.1	95
164	An energy aware fuzzy approach to unequal clustering in wireless sensor networks. Applied Soft Computing Journal, 2013, 13, 1741-1749.	4.1	286
165	A dynamically-tunable graphene-based fano metasurface. , 2013, , .		1
166	Multi-bi- and tri-stability using nonlinear plasmonic Fano resonators. , 2013, , .		2
167	A 3D tunable and multi-frequency graphene plasmonic cloak. Optics Express, 2013, 21, 12592.	1.7	83
168	Behavior of obliquely incident vector Bessel beams at planar interfaces. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1172.	0.8	9
169	On the Internal Resonant Modes in Marching-on-in-Time Solution of the Time Domain Electric Field Integral Equation. IEEE Transactions on Antennas and Propagation, 2013, 61, 4389-4392.	3.1	13
170	Marching On-In-Time Solution of the Time Domain Magnetic Field Integral Equation Using a Predictor-Corrector Scheme. IEEE Transactions on Antennas and Propagation, 2013, 61, 4120-4131.	3.1	93
171	An ultra-broadband multilayered graphene absorber. Optics Express, 2013, 21, 29938.	1.7	254
172	A stable higher order space time Galerkin marching-on-in-time scheme. , 2013, , .		1
173	Explicit solution of Calderon preconditioned time domain integral equations. , 2013, , .		1
174	Electromagnetic scattering of a vector Bessel beam in the presence of an impedance cone. , 2013, , .		3
175	Parallel, explicit, and PWTD-enhanced time domain volume integral equation solver. , 2013, , .		1
176	Multi-GPU-based acceleration of the explicit time domain volume integral equation solver using MPI-OpenACC. , 2013, , .		4
177	A dynamically reconfigurable Fano metamaterial through graphene tuning for switching and sensing applications. Scientific Reports, 2013, 3, 2105.	1.6	180
178	Statistical Characterization of Electromagnetic Wave Propagation in Mine Environments. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1602-1605.	2.4	9
179	Incorporation of Exact Boundary Conditions into a Discontinuous Galerkin Finite Element Method for Accurately Solving 2D Time-Dependent Maxwell Equations. IEEE Transactions on Antennas and Propagation, 2013, 61, 472-477.	3.1	21
180	A fast-multipole domain decomposition integral equation solver for characterizing electromagnetic wave propagation in mine environments. , 2013, , .		1

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181	Solving very large scattering problems using a parallel PWTD-enhanced surface integral equation solver. , 2013, , .		1
182	Progress in parallel implementation of the multilevel plane wave time domain algorithm. , 2013, , .		0
183	Modulation of propagation-invariant Localized Waves for FSO communication systems. Optics Express, 2012, 20, 15126.	1.7	4
184	On the mixed discretization of the time domain magnetic field integral equation. , 2012, , .		1
185	Reflection and transmission of normally incident full-vector X waves on planar interfaces. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 139.	0.8	20
186	On the use of Kontorovich-Lebedev transform in electromagnetic diffraction by an impedance cone. , 2012, , .		8
187	On the “tunneling” of full-vector X-Waves through a slab under frustrated total reflection condition. , 2012, , .		0
188	Statistical characterization of wave propagation in mine environments. , 2012, , .		5
189	Explicit Solution of the Time Domain Volume Integral Equation Using a Stable Predictor-Corrector Scheme. IEEE Transactions on Antennas and Propagation, 2012, 60, 5203-5214.	3.1	77
190	Explicit solution of the time domain magnetic field integral equation using a predictor-corrector scheme. , 2012, , .		0
191	An Efficient Discontinuous Galerkin Finite Element Method for Highly Accurate Solution of Maxwell Equations. IEEE Transactions on Antennas and Propagation, 2012, 60, 3992-3998.	3.1	34
192	INVESTIGATION OF FANO RESONANCES INDUCED BY HIGHER ORDER PLASMON MODES ON A CIRCULAR NANO-DISK WITH AN ELONGATED CAVITY. Progress in Electromagnetics Research, 2012, 130, 187-206.	1.6	14
193	Efficient stochastic EMC/EMI analysis using HDMR-generated surrogate models. , 2011, , .		5
194	A CalderÃ³n-Preconditioned Single Source Combined Field Integral Equation for Analyzing Scattering From Homogeneous Penetrable Objects. IEEE Transactions on Antennas and Propagation, 2011, 59, 2315-2328.	3.1	21
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