

Fernando L Teixeira

List of Publications by Year in descending order

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371
papers

7,106
citations

53794

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95266

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375
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375
docs citations

375
times ranked

3504
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced-Space Relevance Vector Machine for Adaptive Electrical Capacitance Volume Tomography. IEEE Transactions on Computational Imaging, 2022, 8, 41-53.	4.4	3
2	Perturbation Solution for Anisotropic Circular Waveguides Loaded With Eccentric Rods. IEEE Microwave and Wireless Components Letters, 2022, 32, 935-938.	3.2	3
3	Electrical Capacitance Tomography. , 2022, , 3-29.		0
4	Flow Loop Study of ECT-Based Volume Fraction Monitoring in Oil-Water Two-Phase Flows. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-6.	4.7	3
5	Velocity Profiling of a Gas-Solid Fluidized Bed Using Electrical Capacitance Volume Tomography. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-16.	4.7	3
6	Proper Orthogonal Decomposition for Analysis of High-Power Virtual Cathode Oscillations. , 2021, , .		0
7	Dynamic Mode Decomposition Reduced-Order Models for Multiscale Kinetic Plasma Analysis. , 2021, , .		0
8	Detecting Equilibrium State of Dynamical Systems Using Sliding-Window Reduced-Order Dynamic Mode Decomposition. , 2021, , .		1
9	Efficient and Flexible Sensitivity Matrix Computation for Adaptive Electrical Capacitance Volume Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	9
10	Wide-Angle Broadband Resorber for Switchable and Conformal Application. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1205-1216.	4.6	54
11	Toward Water Volume Fraction Calculation in Multiphase Flows Using Electrical Capacitance Tomography Sensors. IEEE Sensors Journal, 2021, 21, 7702-7712.	4.7	10
12	Fano-Assisted Tunable X-Band Microwave Ring Resonator. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2155-2164.	4.6	0
13	Progress in Real-Time Capacitance Tomography of Multiphase Flows Based on the Maxwell-Wagner-Sillars Effect. , 2021, , .		1
14	Far-Field Synthesis from Complex Point Sources via Transformation Metamaterials. , 2021, , .		0
15	Bayesian Compressive Sensing for Rough Surface Reconstruction. , 2021, , .		0
16	Multifunctional Frequency Selective Resorber With Dual Mode and Continuous Tunability. IEEE Transactions on Antennas and Propagation, 2021, 69, 5704-5715.	5.1	34
17	Perturbative Analysis of Anisotropic Coaxial Waveguides With Small Eccentricities via Conformal Transformation Optics. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3958-3966.	4.6	5
18	Detection and prediction of equilibrium states in kinetic plasma simulations via mode tracking using reduced-order dynamic mode decomposition. Journal of Computational Physics, 2021, 447, 110671.	3.8	10

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19	Reduced-Order Modeling of Advection-Dominated Kinetic Plasma Problems by Shifted Proper Orthogonal Decomposition. IEEE Transactions on Plasma Science, 2021, 49, 3689-3699.	1.3	3
20	A Novel High-Order Perturbation Method for the Analysis of Eccentric Coaxial Waveguides Filled with Anisotropic Media. , 2021, , .		0
21	Matrix Conditioning Effects on Implicit Time-Domain Maxwell Solvers. , 2021, , .		0
22	Deep Learning Based Volume Fraction Estimation for Two-Phase Water-Containing Flows. , 2021, , .		3
23	Diagnosing numerical Cherenkov instabilities in relativistic plasma simulations based on general meshes. Journal of Computational Physics, 2020, 402, 108880.	3.8	8
24	Progress in Kinetic Plasma Modeling for High-Power Microwave Devices: Analysis of Multipactor Mitigation in Coaxial Cables. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 501-508.	4.6	5
25	Quantum information preserving computational electromagnetics. Physical Review A, 2020, 102, .	2.5	22
26	FSS-Based Fully Reconfigurable Resorber With Enhanced Absorption Bandwidth and Simplified Bias Network. IEEE Transactions on Antennas and Propagation, 2020, 68, 7370-7381.	5.1	41
27	Relevance Vector Machine Image Reconstruction Algorithm for Electrical Capacitance Tomography With Explicit Uncertainty Estimates. IEEE Sensors Journal, 2020, 20, 4925-4939.	4.7	19
28	Electronic Scanning Strategies in Adaptive Electrical Capacitance Volume Tomography: Tradeoffs and Prospects. IEEE Sensors Journal, 2020, , 1-1.	4.7	12
29	Analysis of Spatiotemporal Field Modes of Particle-in-Cell Plasma Simulations via Proper Orthogonal Decomposition. , 2020, , .		0
30	Dynamic Mode Decomposition for Prediction of Kinetic Plasma Behavior. , 2020, , .		4
31	A Perturbation Method for the Analysis of Eccentric Coaxial Waveguides. , 2020, , .		1
32	3D GPR characterization of buried metallic and plastic tanks using time-reversal processing technique. , 2020, , .		0
33	Challenges on the Applicability of Adaptive Relevance Vector Machine for Image Reconstruction in Soft-Field Tomography. , 2020, , .		0
34	Enhancing Resolution of Electrical Capacitive Sensors for Multiphase Flows by Fine-Stepped Electronic Scanning of Synthetic Electrodes. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 462-473.	4.7	26
35	Cross-Plane Acquisitions in Electrical Capacitance Volume Tomography. IEEE Sensors Journal, 2019, 19, 8767-8774.	4.7	16
36	Velocity Profiling of Two-phase Flows Based on Soft-Field Volume Tomography. , 2019, , .		0

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37	Performance Analysis and Dynamic Evolution of Deep Convolutional Neural Network for Electromagnetic Inverse Scattering. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2259-2263.	4.0	29
38	Proper Orthogonal Decomposition for Particle-in-Cell Simulations. , 2019, , .		0
39	Automatic Sensor Reconfiguration based on Adaptive Relevance Vector Machine for Uncertainty Reduction in Tomography Imaging. , 2019, , .		3
40	Unconditionally Stable One-Step Leapfrog ADI-FDTD for Dispersive Media. IEEE Transactions on Antennas and Propagation, 2019, 67, 2829-2834.	5.1	18
41	Unconditionally stable LOD-FDTD for modeling transmission properties of magnetized graphene sheet. Optics Communications, 2019, 442, 90-94.	2.1	3
42	Analysis of Multipactor Effects by a Particle-in-Cell Algorithm Integrated With Secondary Electron Emission Model on Irregular Grids. IEEE Transactions on Plasma Science, 2019, 47, 1269-1278.	1.3	6
43	One-step leapfrog WCS-FDTD for drude dispersive models. Electronics Letters, 2019, 55, 172-174.	1.0	1
44	Exploiting Sparsity in Adaptive Relevance Vector Machine for Reconfigurable Soft-Field Tomography. , 2019, , .		2
45	Numerical Analysis on Multipactor Effects in Coaxial Cables via Particle-in-Cell Algorithm. , 2019, , .		0
46	Polynomial Finite-Size Shape Functions for Electromagnetic Particle-in-Cell Algorithms Based on Unstructured Meshes. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2019, 4, 317-328.	2.2	2
47	Progress and Challenges in Kinetic Plasma Modeling for High Power Microwave Devices. , 2019, , .		1
48	Field Sampling Strategies for POD Model Order Reduction of Particle-in-Cell Simulations. , 2019, , .		0
49	Numerical Cherenkov Instabilities in Kinetic Plasma Particle-in-Cell Simulations based on Structured and Unstructured Meshes. , 2019, , .		0
50	Complex Transformation Optics and Generalized Double Negative Layers. , 2019, , .		0
51	Simplified Synthetic Electrode Strategy for Electrical Capacitance Volume Tomography. , 2019, , .		0
52	Deep Convolutional Neural Network Approach for Solving Nonlinear Inverse Scattering Problems. , 2019, , .		3
53	Model Order Reduction of Electromagnetic Particle-in-Cell Kinetic Plasma Simulations via Proper Orthogonal Decomposition. IEEE Transactions on Plasma Science, 2019, 47, 5239-5250.	1.3	18
54	Displacement-Current Phase Tomography for Water-Dominated Two-Phase Flow Velocimetry. IEEE Sensors Journal, 2019, 19, 1563-1571.	4.7	14

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55	Stability-Improved ADE-FDTD Method for Wideband Modeling of Graphene Structures. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 212-216.	4.0	7
56	One-Step Leapfrog HIE-FDTD for Drude Media. IEEE Microwave and Wireless Components Letters, 2019, 29, 77-79.	3.2	9
57	DeepNIS: Deep Neural Network for Nonlinear Electromagnetic Inverse Scattering. IEEE Transactions on Antennas and Propagation, 2019, 67, 1819-1825.	5.1	258
58	Finite element time-domain body-of-revolution Maxwell solver based on discrete exterior calculus. Journal of Computational Physics, 2019, 376, 249-275.	3.8	8
59	Semianalytical modeling of arbitrarily distributed quantum emitters embedded in nanopatterned hyperbolic metamaterials. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1273.	2.1	2
60	Evaluating Cross-Plane Acquisitions for Volume Process Tomography in the Laplacian Regime. , 2019, , .		0
61	Analysis of Multipactor Effects by a Particle-in-Cell Algorithm Coupled with the Furman-Pivi Secondary Electron Emission Model. , 2019, , .		1
62	Extended ADI-FDTD for anisotropic magnetised graphene sheets. Electronics Letters, 2019, 55, 833-835.	1.0	1
63	Generalized Veselago-Pendry lenses via complex transformation optics. Optics Express, 2019, 27, 25670.	3.4	4
64	A Perturbation Method to Model Electromagnetic Well-Logging Tools in Curved Boreholes. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1979-1993.	6.3	5
65	Semianalytical Model for Design and Analysis of Grating-Assisted Radiation Emission of Quantum Emitters in Hyperbolic Metamaterials. ACS Photonics, 2018, 5, 1951-1959.	6.6	11
66	Launching and controlling Gaussian beams from point sources via planar transformation media. Physical Review B, 2018, 97, .	3.2	8
67	Relativistic extension of a charge-conservative finite element solver for time-dependent Maxwell-Vlasov equations. Physics of Plasmas, 2018, 25, .	1.9	22
68	Fast Modeling of Terahertz Plasma-Wave Devices Using Unconditionally Stable FDTD Methods. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 29-36.	2.2	8
69	Performance Analysis of Perfectly Matched Layers Applied to Spherical FDTD Grids. IEEE Transactions on Antennas and Propagation, 2018, 66, 1035-1039.	5.1	6
70	Analysis of the PML Performance on Spherical FDTD Grids. , 2018, , .		0
71	Progress on Capacitive Sensing for Real-Time Process Tomography. , 2018, , .		0
72	Numerical Cherenkov Radiation Effects from Grid Dispersion in Finite Element Particle-in-Cell Simulations of Relativistic Electron Beams. , 2018, , .		0

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73	Complex Sources, Gaussian Beams, and Transformation Optics. , 2018, , .		0
74	Dispersion Analysis of Electron Bernstein Waves in Magnetized Warm Plasmas by Finite Element Particle- in -Cell Modeling. , 2018, , .		0
75	Acceleration of Electrical Capacitance Volume Tomography Imaging by Fourier-Based Sparse Representations. IEEE Sensors Journal, 2018, 18, 9649-9659.	4.7	17
76	2D semi-analytical model for optimizing the radiation emission of quantum emitters embedded in a bounded nano-patterned hyperbolic metamaterial. , 2018, , .		0
77	Toward Electrical Capacitance Tomography of Water-Dominated Multiphase Vertical Flows. IEEE Sensors Journal, 2018, 18, 10041-10048.	4.7	20
78	A Perturbation-Based Method to Model Electromagnetic Logging Sensors in Eccentric Boreholes via Conformal Transformation Optics. , 2018, , .		6
79	Real Sources in Complex Spaces. , 2018, , .		0
80	A Comparison of Two Numerical Mode-Matching Methodologies for the Analysis of Inhomogeneous Media With Radial and Vertical Stratifications. IEEE Transactions on Antennas and Propagation, 2018, 66, 7499-7504.	5.1	6
81	A Controlled-Site Comparison of Microwave Tomography and Time-Reversal Imaging Techniques for GPR Surveys. Remote Sensing, 2018, 10, 214.	4.0	3
82	Inverse Normalization Method for Cross-Sectional Imaging and Velocimetry of Two-Phase Flows Based on Electrical Capacitance Tomography. , 2018, 2, 1-4.		19
83	Evaluation of Eccentered Electrode-Type Resistivity Logging in Anisotropic Geological Formations With a Matrix Method. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3895-3902.	6.3	8
84	Highly efficient holograms based on c-Si metasurfaces in the visible range. Optics Express, 2018, 26, 9573.	3.4	20
85	Computation of Tensor Greenâ€™s Functions in Uniaxial Planar-Stratified Media With a Rescaled Equivalent Boundary Approach. IEEE Transactions on Antennas and Propagation, 2018, 66, 1863-1873.	5.1	7
86	Systematic Cell-by-Cell FDTD Subgridding in 3-D. IEEE Microwave and Wireless Components Letters, 2018, 28, 546-548.	3.2	3
87	Broadband c-Si metasurfaces with polarization control at visible wavelengths: applications to 3D stereoscopic holography. Optics Express, 2018, 26, 30740.	3.4	12
88	Study of Gas-Water Flow Inside of a Horizontal Passive Cyclonic Gas-Liquid Phase Separator System Using Displacement-Current Phase Tomography. Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research, 2018, 6, 28-43.	0.8	6
89	A Robust Mode-Matching Algorithm for the Analysis of Triaxial Well-Logging Tools in Anisotropic Geophysical Formations. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2534-2545.	6.3	21
90	Study of time-reversal-based signal processing applied to polarimetric GPR detection of elongated targets. Journal of Applied Geophysics, 2017, 139, 257-268.	2.1	18

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91	Locating small structural damages in pipes using space-frequency DORT processing. Results in Physics, 2017, 7, 1637-1643.	4.1	8
92	A comparison of numerical mode-matching techniques for the analysis of well-logging tools. , 2017, , .		1
93	A Comparison Between Electrical Capacitance Tomography and Displacement-Current Phase Tomography. IEEE Sensors Journal, 2017, 17, 8037-8046.	4.7	41
94	Equalized Time Reversal Beamforming for Frequency-Selective Indoor MISO Channels. IEEE Access, 2017, 5, 3944-3957.	4.2	11
95	Toward Multiphase Flow Decomposition Based on Electrical Capacitance Tomography Sensors. IEEE Sensors Journal, 2017, 17, 8027-8036.	4.7	50
96	Full-wave-hydrodynamic modeling of 2DEG graphene channels for terahertz devices using ADI-FDTD algorithm. , 2017, , .		0
97	Application of time-reversal-based processing techniques to enhance detection of GPR targets. Journal of Applied Geophysics, 2017, 146, 80-94.	2.1	18
98	Mode-matching modeling of low-frequency wireless telemetry in deep oil fields. , 2017, , .		0
99	Axisymmetric charge-conservative electromagnetic particle simulation algorithm on unstructured grids: Application to microwave vacuum electronic devices. Journal of Computational Physics, 2017, 346, 295-317.	3.8	29
100	Beam selection in multiuser millimeter-wave systems with sub-array user terminal architectures. , 2017, , .		0
101	Finite-element time-domain solver for axisymmetric devices based on discrete exterior calculus and transformation optics. , 2017, , .		0
102	Some recent improvements in modeling of electromagnetic well-logging sensors via numerical mode-matching. , 2017, , .		1
103	Electromagnetic modeling of wave propagation in curved boreholes for geophysical exploration. , 2017, , .		0
104	Irregular-grid-based particle-in-cell simulations of resonant electron discharges with probabilistic secondary electron emission model. , 2017, , .		0
105	Fast imaging of velocity profiles of two-phase flows using electrical capacitance volume tomography sensors. , 2017, , .		4
106	Displacement-current phase tomography and electrical capacitance tomography for air-water flow systems. , 2017, , .		2
107	Discretization of Maxwell-vlasov equations based on discrete exterior calculus. , 2017, , .		0
108	Pseudoanalytical modeling of electromagnetic well-logging sensors inside directional wells. , 2017, , .		0

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109	An efficient algorithm for simulation of plasma beam high-power microwave sources. , 2017, , .		0
110	Exploiting the Maxwell-Wagner-Sillars Effect for Displacement-Current Phase Tomography of Two-Phase Flows. IEEE Sensors Journal, 2017, 17, 7317-7324.	4.7	20
111	Pseudo-Analytical Modeling of Tilted-Coil Antennas in Anisotropic Geophysical Formations. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2017, 16, 284-296.	0.7	2
112	A Numerical Mode-Matching Method Based on Multiple-Knot Cubic B-Splines Applied to the Analysis of Well-Logging Tools. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2017, 16, 664-674.	0.7	3
113	Unstructured-grid and conservative electromagnetic particle-in-cell: Application to micromachined slow-wave structures. , 2016, , .		0
114	Compatible discretizations for multiphysics: A brief review and some future challenges. , 2016, , .		1
115	Block Diagonalization for Frequency-Selective Multiuser-MIMO Downlinks. , 2016, , .		1
116	Local, Explicit, and Charge-Conserving Electromagnetic Particle-In-Cell Algorithm on Unstructured Grids. IEEE Transactions on Plasma Science, 2016, 44, 1353-1362.	1.3	33
117	Analysis of triaxial well-logging sensors in layered anisotropic earth formations. , 2016, , .		1
118	Full-wave FETD-based PIC algorithm with local explicit update. , 2016, , .		0
119	Axial mode-matching technique for analysis of directional well-logging sensor tools. , 2016, , .		1
120	Feasibility analysis of polarimetric-interference alignment beamforming in rich-scattering indoor channels. , 2016, , .		0
121	Fast algorithm for image reconstruction in adaptive electrical capacitance tomography. , 2016, , .		2
122	Methodology for assessing the probabilistic condition of an asset based in concepts of structural reliability –PCBM - Probabilistic Condition Based Maintenance–. Procedia Structural Integrity, 2016, 1, 181-188.	0.8	2
123	Charge-conserving relativistic PIC algorithm on unstructured grids. , 2016, , .		0
124	Electromagnetic horizons and convex-spherical reflectionless absorber coatings. , 2016, , .		1
125	Constitutive parameter retrieval for uniaxial metamaterials with spatial dispersion. Physical Review B, 2016, 94, .	3.2	13
126	Stable evaluation of Green's functions in cylindrically stratified regions with uniaxial anisotropic layers. Journal of Computational Physics, 2016, 325, 174-200.	3.8	19

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127	Velocity Profiling of Multiphase Flows Using Capacitive Sensor Sensitivity Gradient. IEEE Sensors Journal, 2016, , 1-1.	4.7	29
128	Cross-pol InSAR coherence degradation due to wave penetration into layered, anisotropic media. , 2016, , .		0
129	Numerical study of co-polarized InSAR phase bias in remote sensing of layered media. , 2016, , .		2
130	An efficient implementation of the nonlocal small-slope approximation for bistatic scattering from two-dimensional rough surfaces. , 2016, , .		1
131	AECVT sensors with reconfigurable capabilities for industrial imaging applications. , 2016, , .		2
132	Space-Time Block Diagonalization for Frequency-Selective MIMO Broadcast Channels. IEEE Access, 2016, 4, 6602-6613.	4.2	3
133	Augmenting resolution capabilities of image reconstruction in adaptive electrical capacitance tomography. , 2016, , .		2
134	Spectral analysis of synthetic electrode activations in adaptive capacitance volume tomography. , 2016, , .		0
135	Robust numerical modeling of currents radiating in Non-Birefringent Anisotropic Medium layers. , 2016, , .		0
136	Geometrically-conformal EM horizons and PML media. , 2016, , .		0
137	Robust numerical modeling of currents radiating in non-birefringent anisotropic medium layers. , 2016, , .		0
138	Analysis of deep-subwavelength Au and Ag slit transmittances at terahertz frequencies. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1355.	2.1	15
139	Full-wave algorithm to model effects of bedding slopes on the response of subsurface electromagnetic geophysical sensors near unconformities. Journal of Computational Physics, 2016, 313, 328-351.	3.8	2
140	Spectral-Domain Computation of Fields Radiated by Sources in Non-Birefringent Anisotropic Media. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 340-343.	4.0	7
141	Full-wave EM modeling in tilted cylindrically-layered media. , 2015, , .		0
142	Regularized time-reversal beamforming for mm-Wave massive MIMO systems. , 2015, , .		1
143	Robust computation of geoelectric potentials in cylindrically stratified anisotropic Earth formations. , 2015, , .		0
144	ELECTRICAL CAPACITANCE VOLUME TOMOGRAPHY: A COMPARISON BETWEEN 12- AND 24-CHANNELS SENSOR SYSTEMS. Progress in Electromagnetics Research M, 2015, 41, 73-84.	0.9	28

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145	Electrical capacitance tomography. , 2015, , 3-21.		46
146	Space-time focusing performance of time-reversal beamforming in rich-scattering indoor channels. , 2015, , .		1
147	Charge-conserving gather-scatter algorithm for PIC simulations on unstructured grids. , 2015, , .		0
148	Guest Editorial: Special Cluster on Compressive Sensing as Applied to Electromagnetics. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1022-1026.	4.0	7
149	An intercomparison of models for predicting bistatic scattering from rough surfaces. , 2015, , .		6
150	Efficient particle locator for unstructured-grid PIC simulations. , 2015, , .		0
151	Interference-nulling time-reversal beamforming for mm-Wave massive MIMO systems. , 2015, , .		10
152	Full-wave EM modeling of geophysical instruments in tilted planar-layered, generally anisotropic and lossy media. , 2015, , .		0
153	Interferometric SAR coherence arising from the vertically-polarized electromagnetic interrogation of layered, penetrable dielectric media. , 2015, , .		3
154	Exact charge-conserving scatterer-gather algorithm for particle-in-cell simulations on unstructured grids: A geometric perspective. Computer Physics Communications, 2015, 194, 43-53.	7.5	64
155	Applications of capacitance tomography in gas-solid fluidized bed systems. , 2015, , 529-549.		5
156	Sensitivity map computation in adaptive electrical capacitance volume tomography with multielectrode excitations. Electronics Letters, 2015, 51, 334-336.	1.0	31
157	Tuning the Plasmonic Extinction Resonances of Hexagonal Arrays of Ag Nanoparticles. Plasmonics, 2015, 10, 1505-1512.	3.4	5
158	A Nodal Continuous-Discontinuous Galerkin Time-Domain Method for Maxwell's Equations. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3081-3093.	4.6	11
159	Perfectly reflectionless omnidirectional absorbers and electromagnetic horizons. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1645.	2.1	17
160	An Efficient Rescaled Formulation for Tensor Green's Function Computation in Cylindrical Multilayered Media. IEEE Transactions on Antennas and Propagation, 2015, 63, 5677-5685.	5.1	14
161	Computation of potentials from current electrodes in cylindrically stratified media: A stable, rescaled semi-analytical formulation. Journal of Computational Physics, 2015, 280, 692-709.	3.8	7
162	LATTICE MAXWELL'S EQUATIONS (Invited Paper). Progress in Electromagnetics Research, 2014, 148, 113-128.	4.4	33

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163	GPR SIGNAL ENHANCEMENT USING SLIDING-WINDOW SPACE-FREQUENCY MATRICES. Progress in Electromagnetics Research, 2014, 145, 1-10.	4.4	18
164	Spectral-domain-based scattering analysis of fields radiated by distributed sources in planar-stratified environments with arbitrarily anisotropic layers. Physical Review E, 2014, 90, 063302.	2.1	8
165	Analysis of time-reversal MUSIC beamforming for indoor WLAN systems. , 2014, , .		1
166	Robust numerical algorithm to model induction tool responses in planar-layered media. , 2014, , .		0
167	Interface-Flattening Transform for EM Field Modeling in Tilted, Cylindrically Stratified Geophysical Media. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1808-1811.	4.0	6
168	Adaptive Electrical Capacitance Volume Tomography. IEEE Sensors Journal, 2014, 14, 1253-1259.	4.7	69
169	Some trade-offs in the application of unconditionally-stable schemes to the finite-element time-domain method. , 2014, , .		0
170	Numerically-robust pseudoanalytical evaluation of Green's functions in cylindrical-stratified media. , 2014, , .		0
171	Robust computation of dipole electromagnetic fields in arbitrarily anisotropic, planar-stratified environments. Physical Review E, 2014, 89, 013312.	2.1	35
172	Complex-valued levin transforms: A robust algorithm for field computation in anisotropic-layered media. , 2014, , .		1
173	Tensor Green's function evaluation in arbitrarily anisotropic, layered media using complex-plane Gauss-Laguerre quadrature. Physical Review E, 2014, 89, 053303.	2.1	14
174	Analysis of low-profile antennas on isoimpedance metamaterial substrates using a novel robust spectral-domain integration methodology. , 2014, , .		0
175	Bayesian compressive sensing for ultrawideband inverse scattering in random media. Inverse Problems, 2014, 30, 114017.	2.0	20
176	Experimental Demonstration of Statistical Stability in Ultrawideband Time-Reversal Imaging. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 29-33.	3.1	7
177	Ultra-wideband microwave imaging of breast cancer tumors via Bayesian inverse scattering. Journal of Applied Physics, 2014, 115, .	2.5	29
178	Causal-Path Local Time-Stepping in the discontinuous Galerkin method for Maxwell's equations. Journal of Computational Physics, 2014, 256, 678-695.	3.8	18
179	Discontinuous Galerkin methods: An affordable alternative to FDTD. , 2014, , .		1
180	Performance comparison of time-reversal beamforming in wireless local area networks. , 2014, , .		3

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181	Trade-Offs for Unconditional Stability in the Finite-Element Time-Domain Method. IEEE Microwave and Wireless Components Letters, 2014, 24, 361-363.	3.2	13
182	Complex-plane generalization of scalar Levin transforms: A robust, rapidly convergent method to compute potentials and fields in multi-layered media. Journal of Computational Physics, 2014, 269, 403-422.	3.8	14
183	Stable pseudoanalytical computation of electromagnetic fields from arbitrarily-oriented dipoles in cylindrically stratified media. Journal of Computational Physics, 2014, 273, 118-142.	3.8	30
184	Statistical Stability of Ultrawideband Time-Reversal Imaging in Random Media. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 870-879.	6.3	25
185	Broadband Finite-Difference Time-Domain Modeling of Plasmonic Organic Photovoltaics. ETRI Journal, 2014, 36, 654-661.	2.0	2
186	Electric-field-coupled resonators as metamaterial loadings for waveguide miniaturization. Journal of Applied Physics, 2013, 114, .	2.5	17
187	Electrically small, complementary electric-field-coupled resonator antennas. Journal of Applied Physics, 2013, 113, .	2.5	61
188	Differential Forms in Lattice Field Theories: An Overview. ISRN Mathematical Analysis, 2013, 2013, 1-16.	0.4	18
189	Complementary electric-field-coupled (CELC) based resonator antennas. , 2013, , .		1
190	Metamaterial claddings for waveguide miniaturization. , 2013, , .		0
191	Analysis of Directional Logging Tools in Anisotropic and Multieccentric Cylindrically-Layered Earth Formations. IEEE Transactions on Antennas and Propagation, 2012, 60, 318-327.	5.1	68
192	Time-reversal techniques applied to ultrawideband indoor wireless communication systems: A comparative study. , 2012, , .		5
193	A Small-Perturbation Automatic-Differentiation Method for Determining Uncertainty in Computational Electromagnetics. IEEE Transactions on Antennas and Propagation, 2012, 60, 5305-5314.	5.1	13
194	Numerical and experimental study on statistical stability of ultrawideband time-reversal imaging. , 2012, , .		0
195	Analysis of canonical low-profile radiators on isoimpedance metamaterial substrates. Radio Science, 2012, 47, .	1.6	6
196	Time-reversal techniques for MISO and MIMO wireless communication systems. Radio Science, 2012, 47, .	1.6	23
197	Imaging and tracking of targets in clutter using differential time-reversal techniques. Waves in Random and Complex Media, 2012, 22, 66-108.	2.7	32
198	Numerical Modeling of Eccentered LWD Borehole Sensors in Dipping and Fully Anisotropic Earth Formations. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 727-735.	6.3	41

#	ARTICLE	IF	CITATIONS
199	Application of the Modal CFS-PML-FDTD to the Analysis of Magnetic Photonic Crystal Waveguides. IEEE Microwave and Wireless Components Letters, 2011, 21, 179-181.	3.2	19
200	Impedance-matched absorbers and optical pseudo black holes. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1317.	2.1	35
201	Analysis of metamaterial absorber blueprints for optical "black holes"™. , 2011, , .		1
202	A Comparative Analysis of Krylov Solvers for Three-Dimensional Simulations of Borehole Sensors. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 98-102.	3.1	9
203	Parallel and Explicit Finite-Element Time-Domain Method for Maxwell's Equations. IEEE Transactions on Antennas and Propagation, 2011, 59, 2350-2356.	5.1	50
204	Performance of differential time-reversal for imaging and tracking of targets in clutter. , 2011, , .		0
205	Analysis of cylindrically conformal patch antennas on isoimpedance anisotropic substrates. , 2011, , .		1
206	Two-Stage Perfectly Matched Layer for the Analysis of Plasmonic Structures. IEICE Transactions on Electronics, 2010, E93-C, 1371-1374.	0.6	4
207	Plasmon-enhanced optical absorption and photocurrent in organic bulk heterojunction photovoltaic devices using self-assembled layer of silver nanoparticles. Solar Energy Materials and Solar Cells, 2010, 94, 128-132.	6.2	195
208	Locally-Conformal FDTD for Anisotropic Conductive Interfaces. IEEE Transactions on Antennas and Propagation, 2010, 58, 3658-3665.	5.1	9
209	Anisotropic metamaterial blueprints for cladding control of waveguide modes. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1603.	2.1	7
210	Impedance analysis of extremely low-profile antennas using metamaterial substrates. , 2010, , .		2
211	Three-Dimensional Finite-Volume Analysis of Directional Resistivity Logging Sensors. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1151-1158.	6.3	37
212	Time-Reversal-Based Signal Processing Techniques for Ultra-wideband Electromagnetic Imaging. , 2010, , 89-96.		1
213	Ultrawideband Microwave Sensing and Imaging Using Time-Reversal Techniques: A Review. Remote Sensing, 2009, 1, 466-495.	4.0	62
214	Perfectly matched layers and transformation optics. , 2009, , .		1
215	Metamaterial claddings for homotopic control of waveguide modes. , 2009, , .		0
216	Efficient poly(3-hexylthiophene)-fullerene derivative bulk heterojunction photovoltaic devices using unique self-assembled layer of Ag nanoparticles with controllable particle-to-particle spacing. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
217	Impact of bandwidth on field enhancements effects in finite-size dispersion-engineered metamaterials. , 2009, , .		0
218	A Study on Unconditionally Stable FDTD Methods for the Modeling of Metamaterials. Journal of Lightwave Technology, 2009, 27, 4241-4249.	4.6	15
219	Surface Plasmon Coplanar Waveguides: Mode Characteristics and Mode Conversion Losses. IEEE Photonics Technology Letters, 2009, 21, 630-632.	2.5	23
220	Computational electromagnetics: Casimir force, multiscale calculations, coordinate stretching. , 2009, , .		0
221	On Numerical Artifacts of the Complex Envelope ADI-FDTD Method. IEEE Transactions on Antennas and Propagation, 2009, 57, 491-498.	5.1	27
222	Dual imaging modality of granular flow based on ECT sensors. Granular Matter, 2008, 10, 75-80.	2.2	30
223	Mixed Finite-Element Time-Domain Method for Transient Maxwell Equations in Doubly Dispersive Media. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 113-120.	4.6	64
224	Time-Domain Finite-Difference and Finite-Element Methods for Maxwell Equations in Complex Media. IEEE Transactions on Antennas and Propagation, 2008, 56, 2150-2166.	5.1	182
225	Comparison of Coupled-Potentials and Field-Based Finite-Volume Techniques for Modeling of Borehole EM Tools. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 209-211.	3.1	8
226	Conformal Perfectly Matched Layer for the Mixed Finite Element Time-Domain Method. IEEE Transactions on Antennas and Propagation, 2008, 56, 1017-1026.	5.1	45
227	Space-Frequency Ultrawideband Time-Reversal Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1115-1124.	6.3	92
228	An Iterative Unconditionally Stable LOD-FDTD Method. IEEE Microwave and Wireless Components Letters, 2008, 18, 76-78.	3.2	34
229	Metamaterial Blueprints for Reflectionless Waveguide Bends. IEEE Microwave and Wireless Components Letters, 2008, 18, 233-235.	3.2	69
230	Numerical Design of Arbitrarily Shaped Electromagnetic Cloaks. , 2008, , .		1
231	Space-Frequency Ultrawideband Time-Reversal Imaging Method as Applied to Subsurface Objects. , 2008, , .		1
232	Photonic crystals with a degenerate band edge: Field enhancement effects and sensitivity analysis. Physical Review B, 2008, 77, .	3.2	20
233	On the Sensitivity of Time-Reversal Imaging Techniques to Model Perturbations. IEEE Transactions on Antennas and Propagation, 2008, 56, 834-843.	5.1	59
234	Numerical study of photonic crystals with a split band edge: Polarization dependence and sensitivity analysis. Physical Review A, 2008, 78, .	2.5	13

#	ARTICLE	IF	CITATIONS
235	CE-ADI-FDTD analysis of photonic crystals with a degenerate band edge (DBE). , 2007, , .		3
236	Finite Volume Modeling of Borehole Electromagnetic Logging in 3-D Anisotropic Formations Using Coupled Scalar-Vector Potentials. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 549-552.	4.0	26
237	Complex Envelope PML-ADI-FDTD Method for Lossy Anisotropic Dielectrics. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 643-646.	4.0	29
238	A Multimodal Tomography System Based on ECT Sensors. IEEE Sensors Journal, 2007, 7, 426-433.	4.7	72
239	Differential Forms, Galerkin Duality, and Sparse Inverse Approximations in Finite Element Solutions of Maxwell Equations. IEEE Transactions on Antennas and Propagation, 2007, 55, 1359-1368.	5.1	60
240	Frozen Modes in Parallel-Plate Waveguides Loaded With Magnetic Photonic Crystals. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2631-2641.	4.6	14
241	Au/SiO_2 Nanoring Plasmon Waveguides at Optical Communication Band. Journal of Lightwave Technology, 2007, 25, 2757-2765.	4.6	121
242	Effects of array restriction on time-reversal methods. , 2007, , .		2
243	Mixed ϵ Finite Elements for Solving 1-D, 2-D, and 3-D Time-Harmonic Maxwell Curl Equations. IEEE Microwave and Wireless Components Letters, 2007, 17, 313-315.	3.2	14
244	Analysis of electromagnetic well logging tools for oil and gas exploration using finite volume techniques. , 2007, , .		0
245	Multispecies ADI-FDTD Algorithm for Nanoscale Three-Dimensional Photonic Metallic Structures. IEEE Photonics Technology Letters, 2007, 19, 586-588.	2.5	46
246	Closed-Form Metamaterial Blueprints for Electromagnetic Masking of Arbitrarily Shaped Convex PEC Objects. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 163-164.	4.0	29
247	Differential form approach to the analysis of electromagnetic cloaking and masking. Microwave and Optical Technology Letters, 2007, 49, 2051-2053.	1.4	18
248	Cylindrical FDTD Analysis of LWD Tools Through Anisotropic Dipping-Layered Earth Media. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 383-388.	6.3	59
249	Numerical Mode-Matching Method for Tilted-Coil Antennas in Cylindrically Layered Anisotropic Media With Multiple Horizontal Beds. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2451-2462.	6.3	46
250	An Analysis of Time-Domain DORT Method for Ultrawideband Probing of Embedded Objects in Dispersive and Random Media. , 2007, , 203-210.		0
251	A Numerical Study on the Sensitivity of Time-Reversal Imaging Methods Against Clutter, Noise and Model Perturbations. , 2007, , 219-226.		1
252	Transient analysis of spectrally asymmetric magnetic photonic crystals with ferromagnetic losses. Physical Review B, 2006, 74, .	3.2	32

#	ARTICLE	IF	CITATIONS
253	Domain-overriding and digital filtering for 3-D FDTD subgridded simulations. IEEE Microwave and Wireless Components Letters, 2006, 16, 10-12.	3.2	9
254	Corrections to "Symmetric Source Implementation for the ADI-FDTD Method". IEEE Transactions on Antennas and Propagation, 2006, 54, 1051-1051.	5.1	0
255	Analysis of Tilted-Coil Eccentric Borehole Antennas in Cylindrical Multilayered Formations for Well-Logging Applications. IEEE Transactions on Antennas and Propagation, 2006, 54, 1058-1064.	5.1	42
256	Nonlinear forward problem solution for electrical capacitance tomography using feed-forward neural network. IEEE Sensors Journal, 2006, 6, 441-449.	4.7	64
257	Split-field PML implementations for the unconditionally stable LOD-FDTD method. IEEE Microwave and Wireless Components Letters, 2006, 16, 398-400.	3.2	58
258	Anisotropic-Medium PML for Vector FETD With Modified Basis Functions. IEEE Transactions on Antennas and Propagation, 2006, 54, 20-27.	5.1	20
259	Geometric finite element discretization of Maxwell equations in primal and dual spaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 349, 1-14.	2.1	115
260	A nonlinear image reconstruction technique for ECT using a combined neural network approach. Measurement Science and Technology, 2006, 17, 2097-2103.	2.6	124
261	Time-domain DORT method for ultrawideband electromagnetic fields under dispersive and conductive random media. , 2006, , .		0
262	Recent Developments in FDTD Modeling of Dispersive and Dispersion-Engineered Materials. , 2006, , .		0
263	Accurate Interfacing of Heterogeneous Structured FDTD Grid Components. IEEE Transactions on Antennas and Propagation, 2006, 54, 1826-1835.	5.1	9
264	Full Time-Domain DORT for Ultrawideband Electromagnetic Fields in Dispersive, Random Inhomogeneous Media. IEEE Transactions on Antennas and Propagation, 2006, 54, 2305-2315.	5.1	100
265	Sparse and explicit FETD via approximate inverse Hodge (mass) matrix. IEEE Microwave and Wireless Components Letters, 2006, 16, 348-350.	3.2	31
266	Sparse and explicit FETD method via a topological-based sparsification of the inverse mass matrix. , 2006, , .		1
267	On the degrees of freedom of lattice electrodynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 336, 1-7.	2.1	41
268	An iterative ADI-FDTD with reduced splitting error. IEEE Microwave and Wireless Components Letters, 2005, 15, 92-94.	3.2	89
269	Three-dimensional simulation of eccentric LWD tool response in boreholes through dipping formations. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 257-268.	6.3	58
270	Implicit nonstaggered finite-difference time-domain method. Microwave and Optical Technology Letters, 2005, 45, 317-319.	1.4	2

#	ARTICLE	IF	CITATIONS
271	Design of a multifunctional integrated optical isolator switch based on nonlinear and nonreciprocal effects. <i>Optical Engineering</i> , 2005, 44, 124002.	1.0	8
272	Symmetric source implementation for the ADI-FDTD method. <i>IEEE Transactions on Antennas and Propagation</i> , 2005, 53, 1562-1565.	5.1	24
273	Modeling of EM Logging Tools in Arbitrary 3-D Borehole Geometries Using PML-FDTD. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2005, 2, 78-81.	3.1	23
274	Frequency Dispersion Compensation in Time Reversal Techniques for UWB Electromagnetic Waves. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2005, 2, 233-237.	3.1	53
275	A new full-vectorial FD-BPM scheme: application to the analysis of magneto-optic and nonlinear saturable media. <i>Journal of Lightwave Technology</i> , 2005, 23, 2579-2585.	4.6	19
276	A numerical study of time-reversed UWB electromagnetic waves in continuous random media. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2005, 4, 43-46.	4.0	53
277	Improved FDTD subgridding algorithms via digital filtering and domain overriding. <i>IEEE Transactions on Antennas and Propagation</i> , 2005, 53, 2938-2951.	5.1	38
278	FDTD Techniques for Large Scale Simulations: A Review on Some Recent Advances. , 2005, , .		0
279	Lattice models for large-scale simulations of coherent wave scattering. <i>Physical Review E</i> , 2004, 69, 016701.	2.1	10
280	Sensitivity Matrix Calculation for Fast 3-D Electrical Capacitance Tomography (ECT) of Flow Systems. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 1204-1207.	2.1	63
281	FDTD Simulation of MWD Electromagnetic Tools in Large-Contrast Geophysical Formations. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 1456-1459.	2.1	14
282	Some Remarks on the Stability of Time-Domain Electromagnetic Simulations. <i>IEEE Transactions on Antennas and Propagation</i> , 2004, 52, 895-898.	5.1	33
283	Subgridding with domain overriding for FDTD. , 2004, , .		1
284	Correction to: "Sensitivity Matrix Calculation for Fast 3-D Electrical Capacitance Tomography (ECT) of Flow Systems". <i>IEEE Transactions on Magnetics</i> , 2004, 40, 1972-1972.	2.1	2
285	Author's reply by S. Wang and F. L. Teixeira. <i>IEEE Microwave and Wireless Components Letters</i> , 2004, 14, 249.	3.2	0
286	Comments on "An efficient PML implementation for the ADI-FDTD method". <i>IEEE Microwave and Wireless Components Letters</i> , 2004, 14, 248-249.	3.2	5
287	Grid-Dispersion Error Reduction for Broadband FDTD Electromagnetic Simulations. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 1440-1443.	2.1	17
288	Anisotropic-medium PML for FETD with conjugate-scaled basis functions. , 2004, , .		0

#	ARTICLE	IF	CITATIONS
289	Modeling and Investigation of a Geometrically Complex UWB GPR Antenna Using FDTD. IEEE Transactions on Antennas and Propagation, 2004, 52, 1983-1991.	5.1	53
290	Numerical Modeling of Ultrawide-Band Dielectric Horn Antennas Using FDTD. IEEE Transactions on Antennas and Propagation, 2004, 52, 1318-1323.	5.1	17
291	Symmetric source implementation for ADI-FDTD. , 2004, , .		1
292	A three-dimensional angle-optimized finite-difference time-domain algorithm. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 811-817.	4.6	37
293	On aspects of the physical realizability of perfectly matched absorbers for electromagnetic waves. Radio Science, 2003, 38, n/a-n/a.	1.6	25
294	Dispersion-relation-preserving FDTD algorithms for large-scale three-dimensional problems. IEEE Transactions on Antennas and Propagation, 2003, 51, 1818-1828.	5.1	77
295	An equivalent electric field source for wideband FDTD simulations of waveguide discontinuities. IEEE Microwave and Wireless Components Letters, 2003, 13, 27-29.	3.2	12
296	An efficient PML implementation for the ADI-FDTD method. IEEE Microwave and Wireless Components Letters, 2003, 13, 72-74.	3.2	50
297	Sparse matrix/canonical grid method applied to 3-D dense medium simulations. IEEE Transactions on Antennas and Propagation, 2003, 51, 48-58.	5.1	18
298	An improved wide-angle FD-BPM for nonlinear and nonreciprocal waveguides. IEEE Transactions on Magnetics, 2003, 39, 1223-1226.	2.1	7
299	A finite-difference time-domain algorithm optimized for arbitrary propagation angles. IEEE Transactions on Antennas and Propagation, 2003, 51, 2456-2463.	5.1	20
300	Split-field and anisotropic-medium PML-FDTD implementations for inhomogeneous media. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 30-35.	4.6	15
301	Optimization of subgridding schemes for FDTD. IEEE Microwave and Wireless Components Letters, 2002, 12, 223-225.	3.2	39
302	<title>Numerical modeling development for characterizing complex GPR problems</title>. , 2002, 4758, 652.		4
303	Finite-difference time-domain simulation of scattering from objects in continuous random media. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 178-186.	6.3	60
304	Analysis and compensation of numerical dispersion in the FDTD method for layered, anisotropic media. IEEE Transactions on Antennas and Propagation, 2002, 50, 1174-1184.	5.1	53
305	An approach for automatic grid generation in three-dimensional FDTD simulations of complex geometries. IEEE Antennas and Propagation Magazine, 2002, 44, 75-80.	1.4	23
306	Detection of targets in continuous random media: A numerical study using the angular correlation function. Microwave and Optical Technology Letters, 2002, 33, 242-247.	1.4	6

#	ARTICLE	IF	CITATIONS
307	Conformal PML-FDTD schemes for electromagnetic field simulations: a dynamic stability study. IEEE Transactions on Antennas and Propagation, 2001, 49, 902-907.	5.1	34
308	Geometric Aspects of the Simplicial Discretization of Maxwell's Equations. Progress in Electromagnetics Research, 2001, 32, 171-188.	4.4	15
309	Fast algorithm for matrix-vector multiply of asymmetric multilevel block-Toeplitz matrices in 3-D scattering. Microwave and Optical Technology Letters, 2001, 31, 28-32.	1.4	62
310	Geometric Aspects of the Simplicial Discretization of Maxwell's Equations- Abstract. Journal of Electromagnetic Waves and Applications, 2001, 15, 479-480.	1.6	0
311	Complex space approach to perfectly matched layers: a review and some new developments. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2000, 13, 441-455.	1.9	99
312	Finite-difference computation of transient electromagnetic waves for cylindrical geometries in complex media. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 1530-1543.	6.3	76
313	Complex space approach to perfectly matched layers: a review and some new developments. , 2000, 13, 441.		1
314	Complex space approach to perfectly matched layers: a review and some new developments. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2000, 13, 441-455.	1.9	2
315	Lattice electromagnetic theory from a topological viewpoint. Journal of Mathematical Physics, 1999, 40, 169-187.	1.1	176
316	Unified analysis of perfectly matched layers using differential forms. Microwave and Optical Technology Letters, 1999, 20, 124-126.	1.4	21
317	Differential Forms, Metrics, and the Reflectionless Absorption of Electromagnetic Waves. Journal of Electromagnetic Waves and Applications, 1999, 13, 665-686.	1.6	112
318	On causality and dynamic stability of perfectly matched layers for FDTD simulations. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 775-785.	4.6	60
319	Analytical derivation of a conformal perfectly matched absorber for electromagnetic waves. Microwave and Optical Technology Letters, 1998, 17, 231-236.	1.4	127
320	Finite-difference time-domain simulation of ground penetrating radar on dispersive, inhomogeneous, and conductive soils. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1928-1937.	6.3	153
321	A general approach to extend Berenger's absorbing boundary condition to anisotropic and dispersive media. IEEE Transactions on Antennas and Propagation, 1998, 46, 1386-1387.	5.1	47
322	Perfectly matched layer and piecewise-linear recursive convolution for the FDTD solution of the 3D dispersive half-space problem. IEEE Transactions on Magnetics, 1998, 34, 2747-2750.	2.1	7
323	General closed-form PML constitutive tensors to match arbitrary bianisotropic and dispersive linear media. , 1998, 8, 223-225.		170
324	Extension of the PML absorbing boundary condition to 3D spherical coordinates: scalar case. IEEE Transactions on Magnetics, 1998, 34, 2680-2683.	2.1	12

#	ARTICLE	IF	CITATIONS
325	PML-FDTD in cylindrical and spherical grids. , 1997, 7, 285-287.		165
326	Systematic derivation of anisotropic PML absorbing media in cylindrical and spherical coordinates. , 1997, 7, 371-373.		206
327	Moment-method analysis of circularly symmetric reflectors using bandlimited basis functions. IET Microwaves Antennas and Propagation, 1997, 144, 179.	1.2	5
328	B-spline basis functions for moment-method analysis of axisymmetric reflector antennas. Microwave and Optical Technology Letters, 1997, 14, 188-191.	1.4	8
329	On the interpolation of numerically defined surfaces in collimated-beam dual reflector antennas. Microwave and Optical Technology Letters, 1994, 7, 209-212.	1.4	1
330	A comparison between techniques for global surface interpolation in shaped reflector analysis. IEEE Transactions on Antennas and Propagation, 1994, 42, 47-53.	5.1	29
331	AN EFFICIENT METHOD TO CALCULATE FIELD THEORIES WITH DYNAMICAL FERMIONS. International Journal of Modern Physics C, 1991, 02, 561-600.	1.7	1
332	Full-vector finite-difference beam propagation method for the analysis of three-dimensional anisotropic optical waveguides. , 0, , .		0
333	FDTD analysis of nonlinear and nonreciprocal integrated optical waveguides. , 0, , .		1
334	Diffraction synthesis of reflector antennas: An efficient approach for the optimization procedure. , 0, , .		1
335	Global vs. bandlimited basis functions in the analysis of axisymmetric reflector antennas. , 0, , .		2
336	Application of band-limited functions to the analysis of axially symmetric reflectors. , 0, , .		0
337	Perfectly matched layer in cylindrical coordinates. , 0, , .		11
338	3D PML-FDTD simulation of ground penetrating radar on dispersive Earth media. , 0, , .		1
339	Parallel 3D PML-FDTD simulation of GPR on dispersive, inhomogeneous and conductive media. , 0, , .		4
340	General PML constitutive tensors to match arbitrary bianisotropic and dispersive linear media. , 0, , .		1
341	Analytical properties of the anisotropic PML constitutive tensors in curvilinear coordinates. , 0, , .		2
342	Cylindrical 3D PML-PLRC-FDTD schemes for frequency-dispersive and inhomogeneous media. , 0, , .		0

#	ARTICLE	IF	CITATIONS
343	A topological viewpoint on consistency aspects of electromagnetic theory on a lattice. , 0, , .		0
344	On dynamic stability of conformal PML-FDTD for electromagnetic field computations. , 0, , .		0
345	Novel cylindrical finite-difference time-domain schemes for transient electromagnetic simulations in unbounded, dispersive regions. , 0, , .		0
346	FDTD simulation of the angular correlation function of objects buried in continuous random media. , 0, , .		0
347	Fast algorithm for matrix-vector multiply of asymmetric multilevel block-toeplitz atrices. , 0, , .		2
348	Dispersion-relation-preserving (DRP) 2-D finite-difference time-domain schemes. , 0, , .		6
349	Angle-optimized FDTD algorithms in two-dimensions. , 0, , .		0
350	Numerical modeling and characterization of fully polarimetric dielectric loaded horn-fed bow-tie (HFB) antenna for GPR applications using FDTD. , 0, , .		0
351	Filtering schemes for dispersion-optimized FDTD algorithms. , 0, , .		3
352	Impedance characterization of dielectric horn antennas using FDTD. , 0, , .		0
353	Perturbative approach to compute sensitivity matrix elements in electrical capacitance tomography (ECT) of flow systems. , 0, , .		1
354	Three-dimensional dispersion-relation-preserving finite-difference time-domain schemes. , 0, , .		0
355	Three-dimensional angle-optimized FDTD algorithms for large-scale problems. , 0, , .		0
356	Numerical study of a UWB dual-polarized feed design for enhanced tapered chambers. , 0, , .		0
357	Automatic grid generation of complex geometries for 3D FDTD simulations. , 0, , .		1
358	Response of Tilted Coil Antennas in Eccentric Boreholes. , 0, , .		0
359	Response of Tilted-Coil Antennas in Multicylindrically Layered Media. , 0, , .		0
360	An iterative ADI-FDTD method for spatially oversampled problems. , 0, , .		0

#	ARTICLE	IF	CITATIONS
361	Compatible Discretizations of Maxwell Equations. , 0, , .		2
362	Solution of non-linear forward problems in electrical capacitance tomography using neural networks. , 0, , .		0
363	Time-Domain Simulation of Time-Reversed EM Pulse Propagation in Continuous Random Media for UWB Sensing Applications. , 0, , .		2
364	Compensation of frequency dispersion in time reversal techniques for ultra-wideband electromagnetic waves. , 0, , .		1
365	Interfacing heterogeneous structured FDTD mesh components. , 0, , .		0
366	Application of CFS-PML to Finite Volume Analysis of EM Well-logging Tools in Multilayered Geophysical Formations. , 0, , .		1
367	An E-B Mixed FEM for First-Order Maxwell Curl Equations. , 0, , .		0
368	PML-FDTD Analysis of Nonreciprocal Magnetic Photonic Crystals with Ferromagnetic Losses. , 0, , .		1
369	High-Frequency Transmission Lines. , 0, , .		2
370	Spatial-frequency localized representations for integral equation reflector analysis. , 0, , .		0
371	Terahertz Passive Amplification via Temporal Talbot Effect in Metamaterial-Based Bragg Fibers. Journal of the Optical Society of America B: Optical Physics, 0, , .	2.1	3