

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

68
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375
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375
docs citations

375
times ranked

3504
citing authors

#	ARTICLE	IF	CITATIONS
1	DeepNIS: Deep Neural Network for Nonlinear Electromagnetic Inverse Scattering. IEEE Transactions on Antennas and Propagation, 2019, 67, 1819-1825.	5.1	258
2	Systematic derivation of anisotropic PML absorbing media in cylindrical and spherical coordinates. , 1997, 7, 371-373.		206
3	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
4	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
5	Lattice electromagnetic theory from a topological viewpoint. Journal of Mathematical Physics, 1999, 40, 169-187.	1.1	176
6	General closed-form PML constitutive tensors to match arbitrary bianisotropic and dispersive linear media. , 1998, 8, 223-225.		170
7	PML-FDTD in cylindrical and spherical grids. , 1997, 7, 285-287.		165
8	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
9	Analytical derivation of a conformal perfectly matched absorber for electromagnetic waves. Microwave and Optical Technology Letters, 1998, 17, 231-236.	1.4	127
10	A nonlinear image reconstruction technique for ECT using a combined neural network approach. Measurement Science and Technology, 2006, 17, 2097-2103.	2.6	124
11	Au/SiO_2 Nanoring Plasmon Waveguides at Optical Communication Band. Journal of Lightwave Technology, 2007, 25, 2757-2765.	4.6	121
12	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
13	Differential Forms, Metrics, and the Reflectionless Absorption of Electromagnetic Waves. Journal of Electromagnetic Waves and Applications, 1999, 13, 665-686.	1.6	112
14	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
15	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
16	Space-Frequency Ultrawideband Time-Reversal Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1115-1124.	6.3	92
17	An iterative ADI-FDTD with reduced splitting error. IEEE Microwave and Wireless Components Letters, 2005, 15, 92-94.	3.2	89
18	Dispersion-relation-preserving FDTD algorithms for large-scale three-dimensional problems. IEEE Transactions on Antennas and Propagation, 2003, 51, 1818-1828.	5.1	77

#	ARTICLE	IF	CITATIONS
19	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
20	A Multimodal Tomography System Based on ECT Sensors. IEEE Sensors Journal, 2007, 7, 426-433.	4.7	72
21	Metamaterial Blueprints for Reflectionless Waveguide Bends. IEEE Microwave and Wireless Components Letters, 2008, 18, 233-235.	3.2	69
22	Adaptive Electrical Capacitance Volume Tomography. IEEE Sensors Journal, 2014, 14, 1253-1259.	4.7	69
23	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
24	Nonlinear forward problem solution for electrical capacitance tomography using feed-forward neural network. IEEE Sensors Journal, 2006, 6, 441-449.	4.7	64
25	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
26	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
27	Sensitivity Matrix Calculation for Fast 3-D Electrical Capacitance Tomography (ECT) of Flow Systems. IEEE Transactions on Magnetics, 2004, 40, 1204-1207.	2.1	63
28	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
29	Ultrawideband Microwave Sensing and Imaging Using Time-Reversal Techniques: A Review. Remote Sensing, 2009, 1, 466-495.	4.0	62
30	Electrically small, complementary electric-field-coupled resonator antennas. Journal of Applied Physics, 2013, 113, .	2.5	61
31	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
32	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
33	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
34	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
35	On the Sensitivity of Time-Reversal Imaging Techniques to Model Perturbations. IEEE Transactions on Antennas and Propagation, 2008, 56, 834-843.	5.1	59
36	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

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37	Split-field PML implementations for the unconditionally stable LOD-FDTD method. IEEE Microwave and Wireless Components Letters, 2006, 16, 398-400.	3.2	58
38	Wide-Angle Broadband Rasorber for Switchable and Conformal Application. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1205-1216.	4.6	54
39	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
40	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
41	Frequency Dispersion Compensation in Time Reversal Techniques for UWB Electromagnetic Waves. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 233-237.	3.1	53
42	A numerical study of time-reversed UWB electromagnetic waves in continuous random media. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 43-46.	4.0	53
43	An efficient PML implementation for the ADI-FDTD method. IEEE Microwave and Wireless Components Letters, 2003, 13, 72-74.	3.2	50
44	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
45	Toward Multiphase Flow Decomposition Based on Electrical Capacitance Tomography Sensors. IEEE Sensors Journal, 2017, 17, 8027-8036.	4.7	50
46	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
47	Multispecies ADI-FDTD Algorithm for Nanoscale Three-Dimensional Photonic Metallic Structures. IEEE Photonics Technology Letters, 2007, 19, 586-588.	2.5	46
48	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
49	Electrical capacitance tomography. , 2015, , 3-21.		46
50	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
51	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
52	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
53	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
54	A Comparison Between Electrical Capacitance Tomography and Displacement-Current Phase Tomography. IEEE Sensors Journal, 2017, 17, 8037-8046.	4.7	41

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55	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
56	Optimization of subgridding schemes for FDTD. IEEE Microwave and Wireless Components Letters, 2002, 12, 223-225.	3.2	39
57	Improved FDTD subgridding algorithms via digital filtering and domain overriding. IEEE Transactions on Antennas and Propagation, 2005, 53, 2938-2951.	5.1	38
58	A three-dimensional angle-optimized finite-difference time-domain algorithm. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 811-817.	4.6	37
59	Three-Dimensional Finite-Volume Analysis of Directional Resistivity Logging Sensors. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1151-1158.	6.3	37
60	Impedance-matched absorbers and optical pseudo black holes. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1317.	2.1	35
61	Robust computation of dipole electromagnetic fields in arbitrarily anisotropic, planar-stratified environments. Physical Review E, 2014, 89, 013312.	2.1	35
62	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
63	An Iterative Unconditionally Stable LOD-FDTD Method. IEEE Microwave and Wireless Components Letters, 2008, 18, 76-78.	3.2	34
64	Multifunctional Frequency Selective Resorber With Dual Mode and Continuous Tunability. IEEE Transactions on Antennas and Propagation, 2021, 69, 5704-5715.	5.1	34
65	Some Remarks on the Stability of Time-Domain Electromagnetic Simulations. IEEE Transactions on Antennas and Propagation, 2004, 52, 895-898.	5.1	33
66	LATTICE MAXWELL'S EQUATIONS (Invited Paper). Progress in Electromagnetics Research, 2014, 148, 113-128.	4.4	33
67	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
68	Transient analysis of spectrally asymmetric magnetic photonic crystals with ferromagnetic losses. Physical Review B, 2006, 74, .	3.2	32
69	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
70	Sparse and explicit FETD via approximate inverse Hodge (mass) matrix. IEEE Microwave and Wireless Components Letters, 2006, 16, 348-350.	3.2	31
71	Sensitivity map computation in adaptive electrical capacitance volume tomography with multielectrode excitations. Electronics Letters, 2015, 51, 334-336.	1.0	31
72	Dual imaging modality of granular flow based on ECT sensors. Granular Matter, 2008, 10, 75-80.	2.2	30

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73	Stable pseudoanalytical computation of electromagnetic fields from arbitrarily-oriented dipoles in cylindrically stratified media. <i>Journal of Computational Physics</i> , 2014, 273, 118-142.	3.8	30
74	A comparison between techniques for global surface interpolation in shaped reflector analysis. <i>IEEE Transactions on Antennas and Propagation</i> , 1994, 42, 47-53.	5.1	29
75	Complex Envelope PML-ADI-FDTD Method for Lossy Anisotropic Dielectrics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007, 6, 643-646.	4.0	29
76	Closed-Form Metamaterial Blueprints for Electromagnetic Masking of Arbitrarily Shaped Convex PEC Objects. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007, 6, 163-164.	4.0	29
77	Ultra-wideband microwave imaging of breast cancer tumors via Bayesian inverse scattering. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	29
78	Velocity Profiling of Multiphase Flows Using Capacitive Sensor Sensitivity Gradient. <i>IEEE Sensors Journal</i> , 2016, , 1-1.	4.7	29
79	Axisymmetric charge-conservative electromagnetic particle simulation algorithm on unstructured grids: Application to microwave vacuum electronic devices. <i>Journal of Computational Physics</i> , 2017, 346, 295-317.	3.8	29
80	Performance Analysis and Dynamic Evolution of Deep Convolutional Neural Network for Electromagnetic Inverse Scattering. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 2259-2263.	4.0	29
81	ELECTRICAL CAPACITANCE VOLUME TOMOGRAPHY: A COMPARISON BETWEEN 12- AND 24-CHANNELS SENSOR SYSTEMS. <i>Progress in Electromagnetics Research M</i> , 2015, 41, 73-84.	0.9	28
82	On Numerical Artifacts of the Complex Envelope ADI-FDTD Method. <i>IEEE Transactions on Antennas and Propagation</i> , 2009, 57, 491-498.	5.1	27
83	Finite Volume Modeling of Borehole Electromagnetic Logging in 3-D Anisotropic Formations Using Coupled Scalar-Vector Potentials. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007, 6, 549-552.	4.0	26
84	Enhancing Resolution of Electrical Capacitive Sensors for Multiphase Flows by Fine-Stepped Electronic Scanning of Synthetic Electrodes. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 462-473.	4.7	26
85	On aspects of the physical realizability of perfectly matched absorbers for electromagnetic waves. <i>Radio Science</i> , 2003, 38, n/a-n/a.	1.6	25
86	Statistical Stability of Ultrawideband Time-Reversal Imaging in Random Media. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 870-879.	6.3	25
87	Symmetric source implementation for the ADI-FDTD method. <i>IEEE Transactions on Antennas and Propagation</i> , 2005, 53, 1562-1565.	5.1	24
88	An approach for automatic grid generation in three-dimensional FDTD simulations of complex geometries. <i>IEEE Antennas and Propagation Magazine</i> , 2002, 44, 75-80.	1.4	23
89	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
90	Surface Plasmon Coplanar Waveguides: Mode Characteristics and Mode Conversion Losses. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 630-632.	2.5	23

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91	Time-reversal techniques for MISO and MIMO wireless communication systems. <i>Radio Science</i> , 2012, 47, .	1.6	23
92	Relativistic extension of a charge-conservative finite element solver for time-dependent Maxwell-Vlasov equations. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	22
93	Quantum information preserving computational electromagnetics. <i>Physical Review A</i> , 2020, 102, .	2.5	22
94	Unified analysis of perfectly matched layers using differential forms. <i>Microwave and Optical Technology Letters</i> , 1999, 20, 124-126.	1.4	21
95	A Robust Mode-Matching Algorithm for the Analysis of Triaxial Well-Logging Tools in Anisotropic Geophysical Formations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 2534-2545.	6.3	21
96	A finite-difference time-domain algorithm optimized for arbitrary propagation angles. <i>IEEE Transactions on Antennas and Propagation</i> , 2003, 51, 2456-2463.	5.1	20
97	Anisotropic-Medium PML for Vector FETD With Modified Basis Functions. <i>IEEE Transactions on Antennas and Propagation</i> , 2006, 54, 20-27.	5.1	20
98	Photonic crystals with a degenerate band edge: Field enhancement effects and sensitivity analysis. <i>Physical Review B</i> , 2008, 77, .	3.2	20
99	Bayesian compressive sensing for ultrawideband inverse scattering in random media. <i>Inverse Problems</i> , 2014, 30, 114017.	2.0	20
100	Exploiting the Maxwell-Wagner-Sillars Effect for Displacement-Current Phase Tomography of Two-Phase Flows. <i>IEEE Sensors Journal</i> , 2017, 17, 7317-7324.	4.7	20
101	Toward Electrical Capacitance Tomography of Water-Dominated Multiphase Vertical Flows. <i>IEEE Sensors Journal</i> , 2018, 18, 10041-10048.	4.7	20
102	Highly efficient holograms based on c-Si metasurfaces in the visible range. <i>Optics Express</i> , 2018, 26, 9573.	3.4	20
103	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
104	Application of the Modal CFS-PML-FDTD to the Analysis of Magnetic Photonic Crystal Waveguides. <i>IEEE Microwave and Wireless Components Letters</i> , 2011, 21, 179-181.	3.2	19
105	Stable evaluation of Green's functions in cylindrically stratified regions with uniaxial anisotropic layers. <i>Journal of Computational Physics</i> , 2016, 325, 174-200.	3.8	19
106	Inverse Normalization Method for Cross-Sectional Imaging and Velocimetry of Two-Phase Flows Based on Electrical Capacitance Tomography. , 2018, 2, 1-4.		19
107	Relevance Vector Machine Image Reconstruction Algorithm for Electrical Capacitance Tomography With Explicit Uncertainty Estimates. <i>IEEE Sensors Journal</i> , 2020, 20, 4925-4939.	4.7	19
108	Sparse matrix/canonical grid method applied to 3-D dense medium simulations. <i>IEEE Transactions on Antennas and Propagation</i> , 2003, 51, 48-58.	5.1	18

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109	Differential form approach to the analysis of electromagnetic cloaking and masking. Microwave and Optical Technology Letters, 2007, 49, 2051-2053.	1.4	18
110	Differential Forms in Lattice Field Theories: An Overview. ISRN Mathematical Analysis, 2013, 2013, 1-16.	0.4	18
111	GPR SIGNAL ENHANCEMENT USING SLIDING-WINDOW SPACE-FREQUENCY MATRICES. Progress in Electromagnetics Research, 2014, 145, 1-10.	4.4	18
112	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
113	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
114	Application of time-reversal-based processing techniques to enhance detection of GPR targets. Journal of Applied Geophysics, 2017, 146, 80-94.	2.1	18
115	Unconditionally Stable One-Step Leapfrog ADI-FDTD for Dispersive Media. IEEE Transactions on Antennas and Propagation, 2019, 67, 2829-2834.	5.1	18
116	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
117	Grid-Dispersion Error Reduction for Broadband FDTD Electromagnetic Simulations. IEEE Transactions on Magnetics, 2004, 40, 1440-1443.	2.1	17
118	Numerical Modeling of Ultrawide-Band Dielectric Horn Antennas Using FDTD. IEEE Transactions on Antennas and Propagation, 2004, 52, 1318-1323.	5.1	17
119	Electric-field-coupled resonators as metamaterial loadings for waveguide miniaturization. Journal of Applied Physics, 2013, 114, .	2.5	17
120	Perfectly reflectionless omnidirectional absorbers and electromagnetic horizons. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1645.	2.1	17
121	Acceleration of Electrical Capacitance Volume Tomography Imaging by Fourier-Based Sparse Representations. IEEE Sensors Journal, 2018, 18, 9649-9659.	4.7	17
122	Cross-Plane Acquisitions in Electrical Capacitance Volume Tomography. IEEE Sensors Journal, 2019, 19, 8767-8774.	4.7	16
123	Geometric Aspects of the Simplicial Discretization of Maxwell's Equations. Progress in Electromagnetics Research, 2001, 32, 171-188.	4.4	15
124	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
125	A Study on Unconditionally Stable FDTD Methods for the Modeling of Metamaterials. Journal of Lightwave Technology, 2009, 27, 4241-4249.	4.6	15
126	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

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127	FDTD Simulation of MWD Electromagnetic Tools in Large-Contrast Geophysical Formations. IEEE Transactions on Magnetics, 2004, 40, 1456-1459.	2.1	14
128	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
129	Mixed FEM 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
130	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
131	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
132	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
133	Displacement-Current Phase Tomography for Water-Dominated Two-Phase Flow Velocimetry. IEEE Sensors Journal, 2019, 19, 1563-1571.	4.7	14
134	Numerical study of photonic crystals with a split band edge: Polarization dependence and sensitivity analysis. Physical Review A, 2008, 78, .	2.5	13
135	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
136	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
137	Constitutive parameter retrieval for uniaxial metamaterials with spatial dispersion. Physical Review B, 2016, 94, .	3.2	13
138	Extension of the PML absorbing boundary condition to 3D spherical coordinates: scalar case. IEEE Transactions on Magnetics, 1998, 34, 2680-2683.	2.1	12
139	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
140	Electronic Scanning Strategies in Adaptive Electrical Capacitance Volume Tomography: Tradeoffs and Prospects. IEEE Sensors Journal, 2020, , 1-1.	4.7	12
141	Broadband c-Si metasurfaces with polarization control at visible wavelengths: applications to 3D stereoscopic holography. Optics Express, 2018, 26, 30740.	3.4	12
142	Perfectly matched layer in cylindrical coordinates. , 0, , .		11
143	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
144	Equalized Time Reversal Beamforming for Frequency-Selective Indoor MISO Channels. IEEE Access, 2017, 5, 3944-3957.	4.2	11

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145	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
146	Lattice models for large-scale simulations of coherent wave scattering. Physical Review E, 2004, 69, 016701.	2.1	10
147	Interference-nulling time-reversal beamforming for mm-Wave massive MIMO systems. , 2015, , .		10
148	Toward Water Volume Fraction Calculation in Multiphase Flows Using Electrical Capacitance Tomography Sensors. IEEE Sensors Journal, 2021, 21, 7702-7712.	4.7	10
149	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
150	Domain-overriding and digital filtering for 3-D FDTD subgridded simulations. IEEE Microwave and Wireless Components Letters, 2006, 16, 10-12.	3.2	9
151	Accurate Interfacing of Heterogeneous Structured FDTD Grid Components. IEEE Transactions on Antennas and Propagation, 2006, 54, 1826-1835.	5.1	9
152	Locally-Conformal FDTD for Anisotropic Conductive Interfaces. IEEE Transactions on Antennas and Propagation, 2010, 58, 3658-3665.	5.1	9
153	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
154	One-Step Leapfrog HIE-FDTD for Drude Media. IEEE Microwave and Wireless Components Letters, 2019, 29, 77-79.	3.2	9
155	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
156	B-spline basis functions for moment-method analysis of axisymmetric reflector antennas. Microwave and Optical Technology Letters, 1997, 14, 188-191.	1.4	8
157	Design of a multifunctional integrated optical isolator switch based on nonlinear and nonreciprocal effects. Optical Engineering, 2005, 44, 124002.	1.0	8
158	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
159	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
160	Locating small structural damages in pipes using space-frequency DORT processing. Results in Physics, 2017, 7, 1637-1643.	4.1	8
161	Launching and controlling Gaussian beams from point sources via planar transformation media. Physical Review B, 2018, 97, .	3.2	8
162	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

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163	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
164	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
165	Diagnosing numerical Cherenkov instabilities in relativistic plasma simulations based on general meshes. Journal of Computational Physics, 2020, 402, 108880.	3.8	8
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