

Fernando L Teixeira

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

257
papers

5,095
citations

39
h-index

60
g-index

375
ext. papers

6,371
ext. citations

3.3
avg, IF

6.14
L-index

#	Paper	IF	Citations
257	Reduced-Space Relevance Vector Machine for Adaptive Electrical Capacitance Volume Tomography. <i>IEEE Transactions on Computational Imaging</i> , 2022 , 8, 41-53	4.5	0
256	Perturbation Solution for Anisotropic Circular Waveguides Loaded With Eccentric Rods. <i>IEEE Microwave and Wireless Components Letters</i> , 2022 , 1-4	2.6	1
255	Electrical Capacitance Tomography 2022 , 3-29		
254	Reduced-Order Modeling of Advection-Dominated Kinetic Plasma Problems by Shifted Proper Orthogonal Decomposition. <i>IEEE Transactions on Plasma Science</i> , 2021 , 49, 3689-3699	1.3	0
253	Toward Water Volume Fraction Calculation in Multiphase Flows Using Electrical Capacitance Tomography Sensors. <i>IEEE Sensors Journal</i> , 2021 , 21, 7702-7712	4	3
252	Fano-Assisted Tunable X-Band Microwave Ring Resonator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2155-2164	4.1	
251	Efficient and Flexible Sensitivity Matrix Computation for Adaptive Electrical Capacitance Volume Tomography. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	5
250	Wide-Angle Broadband Resorber for Switchable and Conformal Application. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 1205-1216	4.1	18
249	Multifunctional Frequency Selective Resorber With Dual Mode and Continuous Tunability. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5704-5715	4.9	7
248	Perturbative Analysis of Anisotropic Coaxial Waveguides With Small Eccentricities via Conformal Transformation Optics. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 3958-3966	4.1	2
247	Detection and prediction of equilibrium states in kinetic plasma simulations via mode tracking using reduced-order dynamic mode decomposition. <i>Journal of Computational Physics</i> , 2021 , 447, 110671 ^{4.1}	4.1	0
246	Relevance Vector Machine Image Reconstruction Algorithm for Electrical Capacitance Tomography With Explicit Uncertainty Estimates. <i>IEEE Sensors Journal</i> , 2020 , 20, 4925-4939	4	9
245	Electronic Scanning Strategies in Adaptive Electrical Capacitance Volume Tomography: Tradeoffs and Prospects. <i>IEEE Sensors Journal</i> , 2020 , 1-1	4	6
244	Progress in Kinetic Plasma Modeling for High-Power Microwave Devices: Analysis of Multipactor Mitigation in Coaxial Cables. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 501-508	4.1	3
243	Quantum information preserving computational electromagnetics. <i>Physical Review A</i> , 2020 , 102,	2.6	6
242	FSS-Based Fully Reconfigurable Resorber With Enhanced Absorption Bandwidth and Simplified Bias Network. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 7370-7381	4.9	20
241	Diagnosing numerical Cherenkov instabilities in relativistic plasma simulations based on general meshes. <i>Journal of Computational Physics</i> , 2020 , 402, 108880	4.1	3

240	2019,			2
239	Unconditionally Stable One-Step Leapfrog ADI-FDTD for Dispersive Media. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 2829-2834	4.9		7
238	Unconditionally stable LOD-FDTD for modeling transmission properties of magnetized graphene sheet. <i>Optics Communications</i> , 2019 , 442, 90-94	2		2
237	Analysis of Multipactor Effects by a Particle-in-Cell Algorithm Integrated With Secondary Electron Emission Model on Irregular Grids. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 1269-1278	1.3		4
236	One-step leapfrog WCS-FDTD for drude dispersive models. <i>Electronics Letters</i> , 2019 , 55, 172-174	1.1		1
235	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	5.2		13
234	Cross-Plane Acquisitions in Electrical Capacitance Volume Tomography. <i>IEEE Sensors Journal</i> , 2019 , 19, 8767-8774	4		7
233	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 ^{3.8}			15
232	Semianalytical modeling of arbitrarily distributed quantum emitters embedded in nanopatterned hyperbolic metamaterials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 1273	1.7		1
231	2019,			1
230	Extended ADI-FDTD for anisotropic magnetised graphene sheets. <i>Electronics Letters</i> , 2019 , 55, 833-835	1.1		0
229	Generalized Veselago-Pendry lenses via complex transformation optics. <i>Optics Express</i> , 2019 , 27, 25670-25677	3.5		1
228	Exploiting Sparsity in Adaptive Relevance Vector Machine for Reconfigurable Soft-Field Tomography 2019,			1
227	Polynomial Finite-Size Shape Functions for Electromagnetic Particle-in-Cell Algorithms Based on Unstructured Meshes. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2019 , 4, 317-328	1.5		2
226	Progress and Challenges in Kinetic Plasma Modeling for High Power Microwave Devices 2019,			1
225	Deep Convolutional Neural Network Approach for Solving Nonlinear Inverse Scattering Problems 2019,			1
224	Model Order Reduction of Electromagnetic Particle-in-Cell Kinetic Plasma Simulations via Proper Orthogonal Decomposition. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 5239-5250	1.3		7
223	Displacement-Current Phase Tomography for Water-Dominated Two-Phase Flow Velocimetry. <i>IEEE Sensors Journal</i> , 2019 , 19, 1563-1571	4		9

222	Stability-Improved ADE-FDTD Method for Wideband Modeling of Graphene Structures. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 212-216	3.8	3
221	One-Step Leapfrog HIE-FDTD for Drude Media. <i>IEEE Microwave and Wireless Components Letters</i> , 2019 , 29, 77-79	2.6	2
220	DeepNIS: Deep Neural Network for Nonlinear Electromagnetic Inverse Scattering. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 1819-1825	4.9	145
219	Finite element time-domain body-of-revolution Maxwell solver based on discrete exterior calculus. <i>Journal of Computational Physics</i> , 2019 , 376, 249-275	4.1	5
218	A Perturbation Method to Model Electromagnetic Well-Logging Tools in Curved Boreholes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 1979-1993	8.1	3
217	Semianalytical Model for Design and Analysis of Grating-Assisted Radiation Emission of Quantum Emitters in Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2018 , 5, 1951-1959	6.3	8
216	Launching and controlling Gaussian beams from point sources via planar transformation media. <i>Physical Review B</i> , 2018 , 97,	3.3	2
215	Relativistic extension of a charge-conservative finite element solver for time-dependent Maxwell-Vlasov equations. <i>Physics of Plasmas</i> , 2018 , 25, 013109	2.1	11
214	. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2018 , 3, 29-36	1.5	3
213	Performance Analysis of Perfectly Matched Layers Applied to Spherical FDTD Grids. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1035-1039	4.9	4
212	Highly efficient holograms based on c-Si metasurfaces in the visible range. <i>Optics Express</i> , 2018 , 26, 9573-9583	3.9	14
211	Computation of Tensor Green's Functions in Uniaxial Planar-Stratified Media With a Rescaled Equivalent Boundary Approach. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1863-1873	4.9	6
210	Systematic Cell-by-Cell FDTD Subgridding in 3-D. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 546-548	2.6	1
209	Broadband c-Si metasurfaces with polarization control at visible wavelengths: applications to 3D stereoscopic holography. <i>Optics Express</i> , 2018 , 26, 30740-30752	3.3	6
208	Study of Gas-Water Flow Inside of a Horizontal Passive Cyclonic Gas-Liquid Phase Separator System Using Displacement-Current Phase Tomography. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2018 , 6, 28-43	0.4	2
207	Acceleration of Electrical Capacitance Volume Tomography Imaging by Fourier-Based Sparse Representations. <i>IEEE Sensors Journal</i> , 2018 , 18, 9649-9659	4	12
206	Toward Electrical Capacitance Tomography of Water-Dominated Multiphase Vertical Flows. <i>IEEE Sensors Journal</i> , 2018 , 18, 10041-10048	4	11
205	A Perturbation-Based Method to Model Electromagnetic Logging Sensors in Eccentric Boreholes via Conformal Transformation Optics 2018 ,		1

204	A Comparison of Two Numerical Mode-Matching Methodologies for the Analysis of Inhomogeneous Media With Radial and Vertical Stratifications. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 7499-7504	4.9	4
203	A Controlled-Site Comparison of Microwave Tomography and Time-Reversal Imaging Techniques for GPR Surveys. <i>Remote Sensing</i> , 2018 , 10, 214	5	2
202	Inverse Normalization Method for Cross-Sectional Imaging and Velocimetry of Two-Phase Flows Based on Electrical Capacitance Tomography 2018 , 2, 1-4		13
201	Evaluation of Eccentered Electrode-Type Resistivity Logging in Anisotropic Geological Formations With a Matrix Method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 3895-3902	8.1	3
200	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	8.1	12
199	Study of time-reversal-based signal processing applied to polarimetric GPR detection of elongated targets. <i>Journal of Applied Geophysics</i> , 2017 , 139, 257-268	1.7	11
198	Locating small structural damages in pipes using space-frequency DORT processing. <i>Results in Physics</i> , 2017 , 7, 1637-1643	3.7	5
197	A Comparison Between Electrical Capacitance Tomography and Displacement-Current Phase Tomography. <i>IEEE Sensors Journal</i> , 2017 , 17, 8037-8046	4	28
196	Equalized Time Reversal Beamforming for Frequency-Selective Indoor MISO Channels. <i>IEEE Access</i> , 2017 , 5, 3944-3957	3.5	10
195	Toward Multiphase Flow Decomposition Based on Electrical Capacitance Tomography Sensors. <i>IEEE Sensors Journal</i> , 2017 , 17, 8027-8036	4	32
194	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	13
193	Pseudo-Analytical Modeling of Tilted-Coil Antennas in Anisotropic Geophysical Formations. <i>Journal of Microwaves, Optoelectronics and Electromagnetic Applications</i> , 2017 , 16, 284-296	0.7	2
192	A Numerical Mode-Matching Method Based on Multiple-Knot Cubic B-Splines Applied to the Analysis of Well-Logging Tools. <i>Journal of Microwaves, Optoelectronics and Electromagnetic Applications</i> , 2017 , 16, 664-674	0.7	2
191	Application of time-reversal-based processing techniques to enhance detection of GPR targets. <i>Journal of Applied Geophysics</i> , 2017 , 146, 80-94	1.7	11
190	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	4.1	21
189	Some recent improvements in modeling of electromagnetic well-logging sensors via numerical mode-matching 2017 ,		1
188	Fast imaging of velocity profiles of two-phase flows using electrical capacitance volume tomography sensors 2017 ,		2
187	Displacement-current phase tomography and electrical capacitance tomography for air-water flow systems 2017 ,		1

186	Electromagnetic Subsurface Remote Sensing 2016 , 1-28		4
185	An efficient implementation of the nonlocal small-slope approximation for bistatic scattering from two-dimensional rough surfaces 2016 ,		1
184	Space-Time Block Diagonalization for Frequency-Selective MIMO Broadcast Channels. <i>IEEE Access</i> , 2016 , 4, 6602-6613	3.5	2
183	Augmenting resolution capabilities of image reconstruction in adaptive electrical capacitance tomography 2016 ,		1
182	Analysis of deep-subwavelength Au and Ag slit transmittances at terahertz frequencies. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 1355	1.7	10
181	Full-wave algorithm to model effects of bedding slopes on the response of subsurface electromagnetic geophysical sensors near unconformities. <i>Journal of Computational Physics</i> , 2016 , 313, 328-351	4.1	0
180	Spectral-Domain Computation of Fields Radiated by Sources in Non-Birefringent Anisotropic Media. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 340-343	3.8	3
179	Local, Explicit, and Charge-Conserving Electromagnetic Particle-In-Cell Algorithm on Unstructured Grids. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 1353-1362	1.3	17
178	Analysis of triaxial well-logging sensors in layered anisotropic earth formations 2016 ,		1
177	Axial mode-matching technique for analysis of directional well-logging sensor tools 2016 ,		1
176	Methodology for assessing the probabilistic condition of an asset based in concepts of structural reliability PCCBM - Probabilistic Condition Based Maintenance <i>Procedia Structural Integrity</i> , 2016 , 1, 181-188	1	1
175	Constitutive parameter retrieval for uniaxial metamaterials with spatial dispersion. <i>Physical Review B</i> , 2016 , 94,	3.3	8
174	Stable evaluation of Green's functions in cylindrically stratified regions with uniaxial anisotropic layers. <i>Journal of Computational Physics</i> , 2016 , 325, 174-200	4.1	16
173	Velocity Profiling of Multiphase Flows Using Capacitive Sensor Sensitivity Gradient. <i>IEEE Sensors Journal</i> , 2016 , 1-1	4	17
172	Numerical study of co-polarized InSAR phase bias in remote sensing of layered media 2016 ,		1
171	Exact charge-conserving scattergather algorithm for particle-in-cell simulations on unstructured grids: A geometric perspective. <i>Computer Physics Communications</i> , 2015 , 194, 43-53	4.2	35
170	Applications of capacitance tomography in gas-solid fluidized bed systems 2015 , 529-549		2
169	Sensitivity map computation in adaptive electrical capacitance volume tomography with multielectrode excitations. <i>Electronics Letters</i> , 2015 , 51, 334-336	1.1	22

168	Tuning the Plasmonic Extinction Resonances of Hexagonal Arrays of Ag Nanoparticles. <i>Plasmonics</i> , 2015 , 10, 1505-1512	2.4	5
167	A Nodal Continuous-Discontinuous Galerkin Time-Domain Method for Maxwell's Equations. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 3081-3093	4.1	9
166	Perfectly reflectionless omnidirectional absorbers and electromagnetic horizons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 1645	1.7	10
165	An Efficient Rescaled Formulation for Tensor Green's Function Computation in Cylindrical Multilayered Media. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 5677-5685	4.9	14
164	Computation of potentials from current electrodes in cylindrically stratified media: A stable, rescaled semi-analytical formulation. <i>Journal of Computational Physics</i> , 2015 , 280, 692-709	4.1	5
163	Regularized time-reversal beamforming for mm-Wave massive MIMO systems 2015 ,		1
162	ELECTRICAL CAPACITANCE VOLUME TOMOGRAPHY: A COMPARISON BETWEEN 12- AND 24-CHANNELS SENSOR SYSTEMS. <i>Progress in Electromagnetics Research M</i> , 2015 , 41, 73-84	0.6	17
161	Electrical capacitance tomography 2015 , 3-21		27
160	An intercomparison of models for predicting bistatic scattering from rough surfaces 2015 ,		4
159	Interference-nulling time-reversal beamforming for mm-Wave massive MIMO systems 2015 ,		7
158	Ultra-wideband microwave imaging of breast cancer tumors via Bayesian inverse scattering. <i>Journal of Applied Physics</i> , 2014 , 115, 064701	2.5	19
157	Causal-Path Local Time-Stepping in the discontinuous Galerkin method for Maxwell's equations. <i>Journal of Computational Physics</i> , 2014 , 256, 678-695	4.1	15
156	Trade-Offs for Unconditional Stability in the Finite-Element Time-Domain Method. <i>IEEE Microwave and Wireless Components Letters</i> , 2014 , 24, 361-363	2.6	9
155	Complex-plane generalization of scalar Levin transforms: A robust, rapidly convergent method to compute potentials and fields in multi-layered media. <i>Journal of Computational Physics</i> , 2014 , 269, 403-422	4.1	10
154	Stable pseudoanalytical computation of electromagnetic fields from arbitrarily-oriented dipoles in cylindrically stratified media. <i>Journal of Computational Physics</i> , 2014 , 273, 118-142	4.1	25
153	Statistical Stability of Ultrawideband Time-Reversal Imaging in Random Media. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 870-879	8.1	21
152	Broadband Finite-Difference Time-Domain Modeling of Plasmonic Organic Photovoltaics. <i>ETRI Journal</i> , 2014 , 36, 654-661	1.4	2
151	LATTICE MAXWELL'S EQUATIONS (Invited Paper). <i>Progress in Electromagnetics Research</i> , 2014 , 148, 113-128	3.8	18

150	GPR SIGNAL ENHANCEMENT USING SLIDING-WINDOW SPACE-FREQUENCY MATRICES. <i>Progress in Electromagnetics Research</i> , 2014 , 145, 1-10	3.8	14
149	Spectral-domain-based scattering analysis of fields radiated by distributed sources in planar-stratified environments with arbitrarily anisotropic layers. <i>Physical Review E</i> , 2014 , 90, 063302	2.4	4
148	Interface-Flattening Transform for EM Field Modeling in Tilted, Cylindrically Stratified Geophysical Media. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 1808-1811	3.8	3
147	Adaptive Electrical Capacitance Volume Tomography. <i>IEEE Sensors Journal</i> , 2014 , 14, 1253-1259	4	45
146	Robust computation of dipole electromagnetic fields in arbitrarily anisotropic, planar-stratified environments. <i>Physical Review E</i> , 2014 , 89, 013312	2.4	24
145	Complex-valued levin transforms: A robust algorithm for field computation in anisotropic-layered media 2014 ,		1
144	Tensor Green's function evaluation in arbitrarily anisotropic, layered media using complex-plane Gauss-Laguerre quadrature. <i>Physical Review E</i> , 2014 , 89, 053303	2.4	8
143	Bayesian compressive sensing for ultrawideband inverse scattering in random media. <i>Inverse Problems</i> , 2014 , 30, 114017	2.3	15
142	Experimental Demonstration of Statistical Stability in Ultrawideband Time-Reversal Imaging. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 29-33	4.1	6
141	Electric-field-coupled resonators as metamaterial loadings for waveguide miniaturization. <i>Journal of Applied Physics</i> , 2013 , 114, 214901	2.5	10
140	Electrically small, complementary electric-field-coupled resonator antennas. <i>Journal of Applied Physics</i> , 2013 , 113, 084903	2.5	43
139	Differential Forms in Lattice Field Theories: An Overview. <i>ISRN Mathematical Analysis</i> , 2013 , 2013, 1-16		12
138	2013 ,		1
137	Numerical Modeling of Eccentered LWD Borehole Sensors in Dipping and Fully Anisotropic Earth Formations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012 , 50, 727-735	8.1	30
136	Time-reversal techniques applied to ultrawideband indoor wireless communication systems: A comparative study 2012 ,		4
135	A Small-Perturbation Automatic-Differentiation Method for Determining Uncertainty in Computational Electromagnetics. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 5305-5314	4.9	9
134	Analysis of canonical low-profile radiators on isoimpedance metamaterial substrates. <i>Radio Science</i> , 2012 , 47, n/a-n/a	1.4	5
133	Time-reversal techniques for MISO and MIMO wireless communication systems. <i>Radio Science</i> , 2012 , 47, n/a-n/a	1.4	16

132	Imaging and tracking of targets in clutter using differential time-reversal techniques. <i>Waves in Random and Complex Media</i> , 2012 , 22, 66-108	1.9	25
131	Analysis of Directional Logging Tools in Anisotropic and Multieccentric Cylindrically-Layered Earth Formations. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 318-327	4.9	50
130	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	2.6	15
129	Impedance-matched absorbers and optical pseudo black holes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 1317	1.7	25
128	A Comparative Analysis of Krylov Solvers for Three-Dimensional Simulations of Borehole Sensors. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011 , 8, 98-102	4.1	6
127	Parallel and Explicit Finite-Element Time-Domain Method for Maxwell's Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 2350-2356	4.9	31
126	Analysis of cylindrically conformal patch antennas on isoimpedance anisotropic substrates 2011 ,		1
125	Locally-Conformal FDTD for Anisotropic Conductive Interfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 3658-3665	4.9	7
124	Anisotropic metamaterial blueprints for cladding control of waveguide modes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 1603	1.7	5
123	Impedance analysis of extremely low-profile antennas using metamaterial substrates 2010 ,		2
122	Three-Dimensional Finite-Volume Analysis of Directional Resistivity Logging Sensors. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010 , 48, 1151-1158	8.1	27
121	Two-Stage Perfectly Matched Layer for the Analysis of Plasmonic Structures. <i>IEEE Transactions on Electronics</i> , 2010 , E93-C, 1371-1374	0.4	4
120	Plasmon-enhanced optical absorption and photocurrent in organic bulk heterojunction photovoltaic devices using self-assembled layer of silver nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 128-132	6.4	175
119	Time-Reversal-Based Signal Processing Techniques for Ultra-wideband Electromagnetic Imaging 2010 , 89-96		0
118	Ultrawideband Microwave Sensing and Imaging Using Time-Reversal Techniques: A Review. <i>Remote Sensing</i> , 2009 , 1, 466-495	5	48
117	Perfectly matched layers and transformation optics 2009 ,		1
116	. <i>Journal of Lightwave Technology</i> , 2009 , 27, 4241-4249	4	11
115	Surface Plasmon Coplanar Waveguides: Mode Characteristics and Mode Conversion Losses. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 630-632	2.2	19

114	. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 491-498	4.9	22
113	Mixed Finite-Element Time-Domain Method for Transient Maxwell Equations in Doubly Dispersive Media. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 113-120	4.1	48
112	Time-Domain Finite-Difference and Finite-Element Methods for Maxwell Equations in Complex Media. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 2150-2166	4.9	134
111	Comparison of Coupled-Potentials and Field-Based Finite-Volume Techniques for Modeling of Borehole EM Tools. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2008 , 5, 209-211	4.1	5
110	Conformal Perfectly Matched Layer for the Mixed Finite Element Time-Domain Method. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 1017-1026	4.9	31
109	Space-Frequency Ultrawideband Time-Reversal Imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008 , 46, 1115-1124	8.1	65
108	An Iterative Unconditionally Stable LOD-FDTD Method. <i>IEEE Microwave and Wireless Components Letters</i> , 2008 , 18, 76-78	2.6	27
107	Metamaterial Blueprints for Reflectionless Waveguide Bends. <i>IEEE Microwave and Wireless Components Letters</i> , 2008 , 18, 233-235	2.6	57
106	Space-Frequency Ultrawideband Time-Reversal Imaging Method as Applied to Subsurface Objects 2008 ,		1
105	Photonic crystals with a degenerate band edge: Field enhancement effects and sensitivity analysis. <i>Physical Review B</i> , 2008 , 77,	3.3	16
104	On the Sensitivity of Time-Reversal Imaging Techniques to Model Perturbations. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 834-843	4.9	44
103	Numerical study of photonic crystals with a split band edge: Polarization dependence and sensitivity analysis. <i>Physical Review A</i> , 2008 , 78,	2.6	8
102	Dual imaging modality of granular flow based on ECT sensors. <i>Granular Matter</i> , 2008 , 10, 75-80	2.6	21
101	Multispecies ADI-FDTD Algorithm for Nanoscale Three-Dimensional Photonic Metallic Structures. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 586-588	2.2	41
100	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	3.8	20
99	Differential form approach to the analysis of electromagnetic cloaking and masking. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 2051-2053	1.2	13
98	Cylindrical FDTD Analysis of LWD Tools Through Anisotropic Dipping-Layered Earth Media. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007 , 45, 383-388	8.1	48
97	Numerical Mode-Matching Method for Tilted-Coil Antennas in Cylindrically Layered Anisotropic Media With Multiple Horizontal Beds. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007 , 45, 2451-2462	8.1	38

96	CE-ADI-FDTD analysis of photonic crystals with a degenerate band edge (DBE) 2007 ,		2
95	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	3.8	21
94	Complex Envelope PML-ADI-FDTD Method for Lossy Anisotropic Dielectrics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007 , 6, 643-646	3.8	24
93	A Multimodal Tomography System Based on ECT Sensors. <i>IEEE Sensors Journal</i> , 2007 , 7, 426-433	4	53
92	Differential Forms, Galerkin Duality, and Sparse Inverse Approximations in Finite Element Solutions of Maxwell Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 1359-1368	4.9	39
91	Frozen Modes in Parallel-Plate Waveguides Loaded With Magnetic Photonic Crystals. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 2631-2641	4.1	11
90	. <i>Journal of Lightwave Technology</i> , 2007 , 25, 2757-2765	4	109
89	Effects of array restriction on time-reversal methods 2007 ,		1
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5	Time-domain simulation of time-reversed EM pulse propagation in continuous random media for UWB sensing applications	2
4	Dispersion-relation-preserving (DRP) 2-D finite-difference time-domain schemes	3
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