Qing Huo Liu

List of Publications by Year
in descending order

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1,011 papers	19,429 citations	18436 62 h-index	38300 95 g-index
1016 all docs	1016 docs citations	1016 times ranked	9500 citing authors

#	Article	IF	Citations
1	PERFECTLY MATCHED LAYERS FOR ELASTODYNAMICS: A NEW ABSORBING BOUNDARY CONDITION. Journal of Computational Acoustics, 1996, 04, 341-359.	1.0	468
2	The PSTD algorithm: A time-domain method requiring only two cells per wavelength. Microwave and Optical Technology Letters, 1997, 15, 158-165.	0.9	432
3	Through-wall imaging (TWI) by radar: 2-D tomographic results and analyses. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2793-2798.	2.7	264
4	Broadband tunable terahertz absorber based on vanadium dioxide metamaterials. Optics Express, 2018, 26, 7148.	1.7	248
5	An accurate algorithm for nonuniform fast Fourier transforms (NUFFT's). , 1998, 8, 18-20.		220
6	Reducing the Number of Elements in a Linear Antenna Array by the Matrix Pencil Method. IEEE Transactions on Antennas and Propagation, 2008, 56, 2955-2962.	3.1	211
7	The perfectly matched layer for acoustic waves in absorptive media. Journal of the Acoustical Society of America, 1997, 102, 2072-2082.	0.5	197
8	Tunable enhanced optical absorption of graphene using plasmonic perfect absorbers. Applied Physics Letters, 2015, 106, .	1.5	195
9	Broadband absorber with periodically sinusoidally-patterned graphene layer in terahertz range. Optics Express, 2017, 25, 11223.	1.7	191
10	The application of the perfectly matched layer in numerical modeling of wave propagation in poroelastic media. Geophysics, 2001, 66, 1258-1266.	1.4	176
11	Sparseness prior based iterative image reconstruction for retrospectively gated cardiac microâ€CT. Medical Physics, 2007, 34, 4476-4483.	1.6	152
12	Discontinuous Galerkin Time-Domain Methods for Multiscale Electromagnetic Simulations: A Review. Proceedings of the IEEE, 2013, 101, 242-254.	16.4	151
13	Three-Dimensional Nonlinear Image Reconstruction for Microwave Biomedical Imaging. IEEE Transactions on Biomedical Engineering, 2004, 51, 544-548.	2.5	145
14	Large-scale simulations of electromagnetic and acoustic measurements using the pseudospectral time-domain (PSTD) algorithm. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 917-926.	2.7	137
15	Electromagnetic time-reversal imaging of a target in a cluttered environment. IEEE Transactions on Antennas and Propagation, 2005, 53, 3058-3066.	3.1	137
16	A Novel Simple and Compact Microstrip-Fed Circularly Polarized Wide Slot Antenna With Wide Axial Ratio Bandwidth for C-Band Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 1552-1555.	3.1	137
17	Active microwave imaging. I. 2-D forward and inverse scattering methods. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 123-133.	2.9	130
18	Crosstalk Prediction of Single- and Double-Walled Carbon-Nanotube (SWCNT/DWCNT) Bundle Interconnects. IEEE Transactions on Electron Devices, 2009, 56, 560-568.	1.6	130

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19	Reducing the Number of Elements in the Synthesis of Shaped-Beam Patterns by the Forward-Backward Matrix Pencil Method. IEEE Transactions on Antennas and Propagation, 2010, 58, 604-608.	3.1	129
20	ISAR Imaging of Targets With Complex Motion Based on the Chirp Rateâ€“Quadratic Chirp Rate Distribution. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7276-7289.	2.7	126
21	Singularity subtraction for evaluation of Green's functions for multilayer media. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 216-225.	2.9	121
22	Radar High-Speed Target Detection Based on the Scaled Inverse Fourier Transform. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1108-1119.	2.3	121
23	Three-Dimensional Reconstruction of Objects Buried in Layered Media Using Born and Distorted Born Iterative Methods. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 107-111.	1.4	118
24	The Regular Fourier Matrices and Nonuniform Fast Fourier Transforms. SIAM Journal of Scientific Computing, 1999, 21, 283-293.	1.3	116
25	Resonance frequency of a rectangular microstrip patch. IEEE Transactions on Antennas and Propagation, 1988, 36, 1045-1056.	3.1	106
26	Active Microwave Imaging II: 3-D System Prototype and Image Reconstruction From Experimental Data. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 991-1000.	2.9	105
27	Two-dimensional and three-dimensional NUFFT migration method for landmine detection using ground-penetrating Radar. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1462-1469.	2.7	103
28	A 3-D spectral-element method using mixed-order curl conforming vector basis functions for electromagnetic fields. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 437-444.	2.9	103
29	An efficient solution for the response of electrical well logging tools in a complex environment. IEEE Transactions on Geoscience and Remote Sensing, 1991, 29, 308-313.	2.7	102
30	Bandwidth Enhancement of a Planar Printed Quasi-Yagi Antenna With Size Reduction. IEEE Transactions on Antennas and Propagation, 2014, 62, 463-467.	3.1	102
31	Focusing Bistatic Forward-Looking SAR With Stationary Transmitter Based on Keystone Transform and Nonlinear Chirp Scaling. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 148-152.	1.4	100
32	A Printed Unidirectional Antenna With Improved Upper Band-Edge Selectivity Using a Parasitic Loop. IEEE Transactions on Antennas and Propagation, 2015, 63, 1832-1837.	3.1	96
33	Substrate Integrated Waveguide Cavity-Backed Slot Array Antenna Using High-Order Radiation Modes for Dual-Band Applications in K -Band. IEEE Transactions on Antennas and Propagation, 2017, 65, 4556-4565.	3.1	96
34	A threeâ€dimensional finite difference simulation of sonic logging. Journal of the Acoustical Society of America, 1996, 100, 72-79.	0.5	94
35	An FDTD algorithm with perfectly matched layers for conductive media. Microwave and Optical Technology Letters, 1997, 14, 134-137.	0.9	90
36	Microstrip Patch Antennas With Multiple Parasitic Patches and Shorting Vias for Bandwidth Enhancement. IEEE Access, 2018, 6, 11624-11633.	2.6	90

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37	Perfectly matched layers for elastic waves in cylindrical and spherical coordinates. Journal of the Acoustical Society of America, 1999, 105, 2075-2084.	0.5	89
38	Parameterized Centroid Frequency-Chirp Rate Distribution for LFM Signal Analysis and Mechanisms of Constant Delay Introduction. IEEE Transactions on Signal Processing, 2017, 65, 6435-6447.	3.2	88
39	Radar High-Speed Target Detection Based on the Frequency-Domain Deramp-Keystone Transform. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 285-294.	2.3	87
40	Smart inverse design of graphene-based photonic metamaterials by an adaptive artificial neural network. Nanoscale, 2019, 11, 9749-9755.	2.8	87
41	The pseudospectral time-domain (PSTD) algorithm for acoustic waves in absorptive media. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 1044-1055.	1.7	86
42	A Printed UWB Vivaldi Antenna Using Stepped Connection Structure Between Slotline and Tapered Patches. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 698-701.	2.4	85
43	A fast volume integral equation solver for electromagnetic scattering from large inhomogeneous objects in planarly layered media. IEEE Transactions on Antennas and Propagation, 2003, 51, 2393-2401.	3.1	84
44	Performance Prediction of Carbon Nanotube Bundle Dipole Antennas. IEEE Nanotechnology Magazine, 2008, 7, 331-337.	1.1	83
45	Reducing the Number of Elements in Multiple-Pattern Linear Arrays by the Extended Matrix Pencil Methods. IEEE Transactions on Antennas and Propagation, 2014, 62, 652-660.	3.1	82
46	Multidomain pseudospectral time-domain simulations of scattering by objects buried in lossy media. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 1366-1373.	2.7	79
47	ISAR Imaging of Nonuniformly Rotating Target Based on a Fast Parameter Estimation Algorithm of Cubic Phase Signal. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4727-4740.	2.7	78
48	ISAR Imaging of Targets With Complex Motions Based on the Keystone Time-Chirp Rate Distribution. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1275-1279.	1.4	76
49	Graphene-based hybrid plasmonic waveguide for highly efficient broadband mid-infrared propagation and modulation. Optics Express, 2018, 26, 15935.	1.7	76
50	Omnidirectional tunable terahertz analog of electromagnetically induced transparency realized by isotropic vanadium dioxide metasurfaces. Applied Physics Express, 2018, 11, 082203.	1.1	76
51	Inversion of induction tool measurements using the distorted Born iterative method and CG-FFHT. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 878-884.	2.7	74
52	A staggered-grid finite-difference method with perfectly matched layers for poroelastic wave equations. Journal of the Acoustical Society of America, 2001, 109, 2571-2580.	0.5	74
53	Manipulating light absorption of graphene using plasmonic nanoparticles. Nanoscale, 2013, 5, 7785.	2.8	74
54	Microwave breast imaging: 3-D forward scattering simulation. IEEE Transactions on Biomedical Engineering, 2003, 50, 1180-1189.	2.5	72

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55	An FDTD algorithm with perfectly matched layers for general dispersive media. IEEE Transactions on Antennas and Propagation, 2000, 48, 637-646.	3.1	70
56	A 3D cylindrical PML/FDTD method for elastic waves in fluidâ€filled pressurized boreholes in triaxially stressed formations. Geophysics, 2003, 68, 1731-1743.	1.4	70
57	Microwave-Induced Thermal Acoustic Tomography for Breast Tumor Based on Compressive Sensing. IEEE Transactions on Biomedical Engineering, 2013, 60, 1298-1307.	2.5	70
58	Quantification of plasma produced OH radical density for water sterilization. Plasma Processes and Polymers, 2018, 15, 1700241.	1.6	70
59	Three-dimensional weak-form conjugate- and biconjugate-gradient FFT methods for volume integral equations. Microwave and Optical Technology Letters, 2001, 29, 350-356.	0.9	69
60	Pattern Synthesis of Unequally Spaced Linear Arrays Including Mutual Coupling Using Iterative FFT via Virtual Active Element Pattern Expansion. IEEE Transactions on Antennas and Propagation, 2017, 65, 3950-3958.	3.1	69
61	Composite graphene-metal microstructures for enhanced multiband absorption covering the entire terahertz range. Carbon, 2019, 148, 317-325.	5.4	69
62	A Modified Efficient KNN Method for Antenna Optimization and Design. IEEE Transactions on Antennas and Propagation, 2020, 68, 6858-6866.	3.1	68
63	Direct synthesis of hydrogen peroxide from plasma-water interactions. Scientific Reports, 2016, 6, 38454.	1.6	64
64	A 3-D Spectral-Element Time-Domain Method for Electromagnetic Simulation. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 983-991.	2.9	63
65	A NEW METHOD FOR THE SYNTHESIS OF NON-UNIFORM LINEAR ARRAYS WITH SHAPED POWER PATTERNS. Progress in Electromagnetics Research, 2010, 107, 349-363.	1.6	63
66	Broadband Waveguide Cloak for Water Waves. Physical Review Letters, 2019, 123, 074501.	2.9	62
67	Fast Pencil Beam Pattern Synthesis of Large Unequally Spaced Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2013, 61, 627-634.	3.1	60
68	Design of a Wideband Planar Printed Quasi-Yagi Antenna Using Stepped Connection Structure. IEEE Transactions on Antennas and Propagation, 2014, 62, 3431-3435.	3.1	60
69	Electromagnetic field generated by an offâ€axis source in a cylindrically layered medium with an arbitrary number of horizontal discontinuities. Geophysics, 1993, 58, 616-625.	1.4	59
70	Two-Dimensional Reverse-Time Migration Applied to GPR With a 3-D-to-2-D Data Conversion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4313-4320.	2.3	59
71	A generalized recursive algorithm for wave-scattering solutions in two dimensions. IEEE Transactions on Microwave Theory and Techniques, 1992, 40, 716-723.	2.9	58
72	Simulations of GPR in dispersive media using a frequency-dependent PSTD algorithm. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 2317-2324.	2.7	58

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73	Perfect light absorption in graphene by two unpatterned dielectric layers and potential applications. Carbon, 2019, 142, 430-437.	5.4	57
74	Enlarged cells for the conformal FDTD method to avoid the time step reduction. IEEE Microwave and Wireless Components Letters, 2004, 14, 551-553.	2.0	56
75	A three-dimensional finite difference code for the modeling of sonic logging tools. Journal of the Acoustical Society of America, 1998, 103, 702-712.	0.5	55
76	Reverse time migration of acoustic waves for imaging based defects detection for concrete and CFST structures. Mechanical Systems and Signal Processing, 2019, 117, 210-220.	4.4	55
77	EB Scheme-Based Hybrid SE-FE DGTD Method for Multiscale EM Simulations. IEEE Transactions on Antennas and Propagation, 2016, 64, 4088-4091.	3.1	54
78	Super Subwavelength Guiding and Rejecting of Terahertz Spoof SPPs Enabled by Planar Plasmonic Waveguides and Notch Filters Based on Spiral-Shaped Units. Journal of Lightwave Technology, 2018, 36, 4988-4994.	2.7	54
79	Electrically Tunable Broadband Terahertz Absorption with Hybrid-Patterned Graphene Metasurfaces. Nanomaterials, 2018, 8, 562.	1.9	54
80	Simulation of Near-Surface Detection of Objects in Layered Media by the BCGSâ€“FFT Method. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 327-334.	2.7	53
81	Enhanced spatial near-infrared modulation of graphene-loaded perfect absorbers using plasmonic nanoslits. Optics Express, 2015, 23, 32318.	1.7	53
82	Broadband optical waveguide modulators based on strongly coupled hybrid graphene and metal nanoribbons for near-infrared applications. Nanoscale, 2019, 11, 3229-3239.	2.8	53
83	A Broadband Unidirectional Antenna Based on Closely Spaced Loading Method. IEEE Transactions on Antennas and Propagation, 2013, 61, 109-116.	3.1	52
84	A New 3-D Nonspurious Discontinuous Galerkin Spectral Element Time-Domain (DG-SETD) Method for Maxwellâ€™s Equations. IEEE Transactions on Antennas and Propagation, 2015, 63, 2585-2594.	3.1	52
85	A discontinuous Galerkin method for simulating the effects of arbitrary discrete fractures on elastic wave propagation. Geophysical Journal International, 2017, 210, 1219-1230.	1.0	52
86	Designing Graphene-Based Absorber by Using HIE-FDTD Method. IEEE Transactions on Antennas and Propagation, 2017, 65, 1896-1902.	3.1	51
87	Time-frequency analysis of air-coupled GPR data for identification of delamination between pavement layers. Construction and Building Materials, 2017, 154, 1207-1215.	3.2	51
88	Three-dimensional unstructured-grid discontinuous Galerkin method for Maxwell's equations with well-posed perfectly matched layer. Microwave and Optical Technology Letters, 2005, 46, 459-463.	0.9	50
89	An efficient 3-D spectral-element method for Schro/spl uml/dinger equation in nanodevice simulation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2005, 24, 1848-1858.	1.9	50
90	Reconstruction of 3D objects from multi-frequency experimental data with a fast DBIM-BCGS method. Inverse Problems, 2009, 25, 024007.	1.0	50

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91	Design of a Stub-Loaded Ring-Resonator Slot for Antenna Applications. IEEE Transactions on Antennas and Propagation, 2015, 63, 517-524.	3.1	50
92	Concentrators for Water Waves. Physical Review Letters, 2018, 121, 104501.	2.9	50
93	Numerical mode-matching method for the multiregion vertically stratified media (EM wave) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.1	49
94	Two nonlinear inverse methods for electromagnetic induction measurements. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 1331-1339.	2.7	49
95	Reconstruction of three-dimensional objects in layered media: numerical experiments. IEEE Transactions on Antennas and Propagation, 2005, 53, 1556-1561.	3.1	49
96	A volume adaptive integral method (VAIM) for 3-D inhomogeneous objects. IEEE Antennas and Wireless Propagation Letters, 2002, 1, 102-105.	2.4	48
97	Efficient Implicitâ€“Explicit Time Stepping Scheme With Domain Decomposition for Multiscale Modeling of Layered Structures. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 1438-1446.	1.4	48
98	Near unity ultraviolet absorption in graphene without patterning. Applied Physics Letters, 2018, 112, .	1.5	47
99	Least-Square NUFFT Methods Applied to 2-D and 3-D Radially Encoded MR Image Reconstruction. IEEE Transactions on Biomedical Engineering, 2009, 56, 1134-1142.	2.5	46
100	Perfect ultraviolet absorption in graphene using the magnetic resonance of an all-dielectric nanostructure. Optics Express, 2018, 26, 18155.	1.7	46
101	Substrate Integrated Plasmonic Waveguide for Microwave Bandpass Filter Applications. IEEE Access, 2019, 7, 75957-75964.	2.6	46
102	Finite difference computation of head-related transfer function for human hearing. Journal of the Acoustical Society of America, 2003, 113, 2434-2441.	0.5	45
103	Isotropic Riemann Solver for a Nonconformal Discontinuous Galerkin Pseudospectral Time-Domain Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1254-1261.	2.7	45
104	A 3-D Discontinuous Spectral Element Time-Domain Method for Maxwell's Equations. IEEE Transactions on Antennas and Propagation, 2009, 57, 2666-2674.	3.1	44
105	Synthesis of Nonuniformly Spaced Linear Arrays With Frequency-Invariant Patterns by the Generalized Matrix Pencil Methods. IEEE Transactions on Antennas and Propagation, 2015, 63, 1614-1625.	3.1	44
106	Radar High-Speed Maneuvering Target Detection Based on Three-Dimensional Scaled Transform. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2821-2833.	2.3	44
107	Portable tumor biosensing of serum by plasmonic biochips in combination with nanoimprint and microfluidics. Nanophotonics, 2019, 8, 307-316.	2.9	44
108	Surface plasmon resonance in nanostructured metal films under the Kretschmann configuration. Journal of Applied Physics, 2009, 106, .	1.1	43

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109	Electrothermal Characterization of Single-Walled Carbon Nanotube (SWCNT) Interconnect Arrays. IEEE Nanotechnology Magazine, 2009, 8, 718-728.	1.1	43
110	Compact Multimode Monopole Antenna for Metal-Rimmed Mobile Phones. IEEE Transactions on Antennas and Propagation, 2017, 65, 2297-2304.	3.1	43
111	Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 429-439.	2.7	42
112	Using the ADI-FDTD Method to Simulate Graphene-Based FSS at Terahertz Frequency. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1218-1223.	1.4	42
113	Linearly Polarized Shaped Power Pattern Synthesis With Sidelobe and Cross-Polarization Control by Using Semidefinite Relaxation. IEEE Transactions on Antennas and Propagation, 2018, 66, 3207-3212.	3.1	42
114	The 2.5-D multidomain pseudospectral time-domain algorithm. IEEE Transactions on Antennas and Propagation, 2003, 51, 619-627.	3.1	41
115	Shielding Characterization of Metallic Enclosures With Multiple Slots and a Thin-Wire Antenna Loaded: Multiple Oblique EMP Incidences With Arbitrary Polarizations. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 284-292.	1.4	41
116	Transient Electrothermal Analysis of Multilevel Interconnects in the Presence of ESD Pulses Using the Nonlinear Time-Domain Finite-Element Method. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 774-783.	1.4	41
117	Microwave Imaging in Layered Media: 3-D Image Reconstruction From Experimental Data. IEEE Transactions on Antennas and Propagation, 2010, 58, 440-448.	3.1	41
118	Small planar monopole ultraâ€wideband antenna with reduced ground plane effect. IET Microwaves, Antennas and Propagation, 2015, 9, 1028-1034.	0.7	41
119	Dual-Polarized H-Shaped Printed Slot Antenna. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1484-1487.	2.4	41
120	Frequency-Domain Reverse-Time Migration of Ground Penetrating Radar Based on Layered Medium Green's Functions. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2957-2965.	2.3	41
121	The BCGS-FFT method for electromagnetic scattering from inhomogeneous objects in a planarly layered medium. IEEE Antennas and Wireless Propagation Letters, 2002, 1, 77-80.	2.4	40
122	Applications of the BCGS-FFT method to 3-D induction well logging problems. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 998-1004.	2.7	40
123	A strongly well-posed PML in lossy media. IEEE Antennas and Wireless Propagation Letters, 2003, 2, 97-100.	2.4	40
124	A Multidomain PSTD Method for 3D Elastic Wave Equations. Bulletin of the Seismological Society of America, 2004, 94, 1002-1015.	1.1	40
125	Spectral element method for band structures of two-dimensional anisotropic photonic crystals. Physical Review E, 2009, 79, 026705.	0.8	40
126	A Nonspurious 3-D Vector Discontinuous Galerkin Finite-Element Time-Domain Method. IEEE Microwave and Wireless Components Letters, 2010, 20, 1-3.	2.0	40

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127	Two Memristor SPICE Models and Their Applications in Microwave Devices. IEEE Nanotechnology Magazine, 2014, 13, 607-616.	1.1	40
128	Applications of nonuniform fast transform algorithms in numerical solutions of differential and integral equations. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 1551-1560.	2.7	39
129	Electro-Thermo-Mechanical Characterizations of Various Wire Bonding Interconnects Illuminated by an Electromagnetic Pulse. IEEE Transactions on Advanced Packaging, 2010, 33, 729-737.	1.7	39
130	Mixed Spectral-Element Method for 3-D Maxwell's Eigenvalue Problem. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 317-325.	2.9	39
131	Analysis of discontinuities in planar dielectric waveguides: an eigenmode propagation method. IEEE Transactions on Microwave Theory and Techniques, 1991, 39, 422-430.	2.9	38
132	The 3-D Multidomain Pseudospectral Time-Domain Algorithm for Inhomogeneous Conductive Media. IEEE Transactions on Antennas and Propagation, 2004, 52, 742-749.	3.1	38
133	ISAR Imaging of Targets With Complex Motions Based on a Noise-Resistant Parameter Estimation Algorithm Without Nonuniform Axis. IEEE Sensors Journal, 2016, 16, 2509-2518.	2.4	38
134	An exact Riemann solver for wave propagation in arbitrary anisotropic elastic media with fluid coupling. Computer Methods in Applied Mechanics and Engineering, 2018, 329, 24-39.	3.4	38
135	Bandpass Filter Using Three Pairs of Coupled Lines With Multiple Transmission Zeros. IEEE Microwave and Wireless Components Letters, 2018, 28, 576-578.	2.0	38
136	Printed Quasi-Yagi Antennas Using Double Dipoles and Stub-Loaded Technique for Multi-Band and Broadband Applications. IEEE Access, 2018, 6, 31695-31702.	2.6	38
137	The formation pathways of aqueous hydrogen peroxide in a plasma-liquid system with liquid as the cathode. Plasma Sources Science and Technology, 2018, 27, 085010.	1.3	38
138	A nonuniform cylindrical FDTD algorithm with improved PML and quasi-PML absorbing boundary conditions. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 1066-1072.	2.7	37
139	Elastic-wave propagation in deviated wells in anisotropic formations. Geophysics, 2006, 71, D191-D202.	1.4	37
140	A 3-D Enlarged Cell Technique (ECT) for the Conformal FDTD Method. IEEE Transactions on Antennas and Propagation, 2008, 56, 765-773.	3.1	37
141	A Semianalytical Spectral Element Method for the Analysis of 3-D Layered Structures. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1-8.	2.9	37
142	Reconstruction of two-dimensional axisymmetric inhomogeneous media. IEEE Transactions on Geoscience and Remote Sensing, 1993, 31, 587-594.	2.7	36
143	Applications of the conjugate gradient fast Fourier Hankel transfer method with an improved fast Hankel transform algorithm. Radio Science, 1994, 29, 1009-1022.	0.8	36
144	Thermal Accumulation Effects on the Transient Temperature Responses in LDMOSFETs Under the Impact of a Periodic Electromagnetic Pulse. IEEE Transactions on Electron Devices, 2010, 57, 345-352.	1.6	36

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145	GO/PO and PTD With Virtual Divergence Factor for Fast Analysis of Scattering From Concave Complex Targets. IEEE Transactions on Antennas and Propagation, 2015, 63, 2170-2179.	3.1	36
146	Efficient Computation of Electromagnetic Waves in Anisotropic Orthogonal-Plano-Cylindrically Layered Media Using the Improved Numerical Mode Matching (NMM) Method. IEEE Transactions on Antennas and Propagation, 2015, 63, 3569-3578.	3.1	36
147	Efficient Ordinary Differential Equation-Based Discontinuous Galerkin Method for Viscoelastic Wave Modeling. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5577-5584.	2.7	36
148	Strongly Confined Spoof Surface Plasmon Polaritons Waveguiding Enabled by Planar Staggered Plasmonic Waveguides. Scientific Reports, 2016, 6, 38528.	1.6	36
149	PML and PSTD algorithm for arbitrary lossy anisotropic media. , 1999, 9, 48-50.		35
150	3-D numerical mode-matching (NMM) method for resistivity well-logging tools. IEEE Transactions on Antennas and Propagation, 2000, 48, 1544-1552.	3.1	35
151	A pseudospectral frequency-domain (PSFD) method for computational electromagnetics. IEEE Antennas and Wireless Propagation Letters, 2002, 1, 131-134.	2.4	35
152	Wave Equation-Based Implicit Subdomain DGTD Method for Modeling of Electrically Small Problems. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1111-1119.	2.9	35
153	Through-Casing Hydraulic Fracture Evaluation by Induction Logging II: The Inversion Algorithm and Experimental Validations. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1189-1198.	2.7	35
154	Unified Riemann solution for multi-physics coupling: Anisotropic poroelastic/elastic/fluid interfaces. Journal of Computational Physics, 2020, 402, 108961.	1.9	35
155	Fast Electromagnetic Inversion of Inhomogeneous Scatterers Embedded in Layered Media by Born Approximation and 3-D U-Net. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1677-1681.	1.4	35
156	Ultra-broadband wide-angle terahertz absorber realized by a doped silicon metamaterial. Optics Communications, 2020, 471, 125835.	1.0	35
157	Transmit Beampattern Synthesis for Frequency Diverse Array With Particle Swarm Frequency Offset Optimization. IEEE Transactions on Antennas and Propagation, 2021, 69, 892-901.	3.1	35
158	Compact Spoof Surface Plasmon Polariton Waveguides and Notch Filters Based on Meander-Strip Units. IEEE Photonics Technology Letters, 2021, 33, 135-138.	1.3	35
159	A Back-Fire to Forward Wide-Angle Beam Steering Leaky-Wave Antenna Based on SSPPs. IEEE Transactions on Antennas and Propagation, 2022, 70, 3237-3247.	3.1	35
160	A Generalized Omega-K Algorithm to Process Translationally Variant Bistatic-SAR Data Based on Two-Dimensional Stolt Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6597-6614.	2.7	34
161	A Fast Radial Scanned Near-Field 3-D SAR Imaging System and the Reconstruction Method. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1355-1363.	2.7	34
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