Bing Wei

List of Publications by Year
in descending order

87 papers	276 citations	1163117 8 h-index	1125743 13 g-index
87 all docs	87 docs citations	87 times ranked	173 citing authors

#	Article	IF	Citations
1	A New Model for Analysis of the Shielding Effectiveness of Multilayer Infinite Metal Meshes in a Wide Frequency Range. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 102-110.	2.2	3
2	Improved FDTD Method for Coupling Analysis of a Dielectric-Coated Wire Above Rough Soil Surface Under HPEM Pulse. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 129-138.	2.2	2
3	Propagation characteristics of <scp>very low frequency</scp> vortex electromagnetic waves in an anisotropic ionosphere. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2022, 35, e2973.	1.9	1
4	A Fast Method for SBR-Based Multiaspect Radar Cross Section Simulation of Electrically Large Targets. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1920-1924.	4.0	2
5	A Spatial Modes Filtering FETD Method Combined With Domain Decomposition for Simulating Fine Electromagnetic Structures. IEEE Microwave and Wireless Components Letters, 2022, 32, 1259-1262.	3.2	3
6	An SO-DGTD method of modeling dispersive media. Waves in Random and Complex Media, 2021, 31, 389-402.	2.7	0
7	A novel domain decomposition-finite difference time domain method for composite scattering from a target above rough surface. Waves in Random and Complex Media, 2021, 31, 255-269.	2.7	3
8	A Novel DGTD Method Based on the Current Density Equation for Magnetized Cold Plasma. IEEE Transactions on Antennas and Propagation, 2021, 69, 3371-3380.	5.1	7
9	A Hybrid Mesh DGTD Algorithm Based on Virtual Element for Tetrahedron and Hexahedron. IEEE Transactions on Antennas and Propagation, 2021, 69, 2242-2248.	5.1	8
10	Time-Domain Reflection of Pulse Plane Wave From Multilayered Lossy Medium. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 557-561.	4.0	4
11	Implementation of uniaxial perfectly matched layer based on hexahedron element in discontinuous Galerkin time domain. IET Microwaves, Antennas and Propagation, 2021, 15, 1042.	1.4	1
12	A Subgridding Unconditionally Stable FETD Method Based on Local Eigenvalue Solution. IEEE Transactions on Antennas and Propagation, 2021, 69, 4695-4705.	5.1	5
13	A Novel Hybrid Algorithm for Transient Near-Field Scattering from Rough Surface in 2-D Case. International Journal of Antennas and Propagation, 2021, 2021, 1-9.	1.2	0
14	Analysis and Evaluation of Periodic Medium Structure on Shielding Effectiveness. , 2021, , .		0
15	Research on Hybrid Algorithm of Explicit Newmark-FDTD and Traditional FDTD Methods. , 2021, , .		0
16	An Efficient Scheme for Multiple Fine Structures in Hybrid FETD. , 2021, , .		0
17	Transient analysis of propagation characteristics in layered lossy medium. , 2021, , .		0
18	Wave Number and Input Impedance of a VLF Insulated Linear Antenna in an Anisotropic Ionosphere. International Journal of Antennas and Propagation, 2021, 2021, 1-12.	1.2	0

#	ARTICLE	IF	CITATIONS
19	Hybrid FDTD algorithm for electromagnetic analysis of fine structures. Results in Physics, 2021, 31, 105017.	4.1	3
20	Correction of Time Domain Measurement Error of Reflection Coefficient of Dielectric Plate. , 2021, , .		0
21	Analysis of Shielding Effectiveness of Multi-layer Steel Cages under High-Altitude Nuclear Explosion. , 2021, , .		0
22	A high-precision electromagnetic technique for modeling and simulation in inhomogeneous media. Waves in Random and Complex Media, 2020, 30, 107-117.	2.7	0
23	Semi-analytical recursive convolution finite-element time-domain method for electromagnetic analysis of dispersive media. Optik, 2020, 206, 163754.	2.9	3
24	A Stable Mixed TDFEM Based on Filtering Spatial Unstable Modes. , 2020, , .		0
25	Explicit Newmark-FDTD Method Based on Maxwellâ€™s Equation. , 2020, , .		0
26	The application of DGTD in simulation of the open-ended cavity. , 2020, , .		0
27	A Domain Decomposition-Finite Different Time Domain Method for Low Computation Cost in Solving Scattering from an Object above Rough Surface. , 2020, , .		0
28	Calculation of the Time-Domain Transmission Coefficient of the Layered Lossy Media. , 2020, , .		1
29	A new large-cell superhard carbon allotrope: orthorhombic oC240. Molecular Physics, 2020, 118, e1767815.	1.7	2
30	Hybrid Algorithm of Explicit FETD and FDTD Methods with Large Time Step. , 2020, , .		0
31	Circuit Modeling of the Cable Shield Injection. , 2020, , .		0
32	The implement of the hybrid meshes in US-FETD by using Domain decomposition method. , 2020, , .		1
33	Parallel FDFD Algorithm Based on MPI and Its Application. , 2020, , .		0
34	An Explicit Newmark-FDTD Algorithm With Subgridding Technique. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2383-2387.	4.0	6
35	Pressure effects on mechanical and electronic properties of metallic C14 by first-principles calculation. International Journal of Modern Physics B, 2019, 33, 1950193.	2.0	0
36	Ultra-Wideband Scattering Coefficient Measurement in Time-Domain of Layered Dielectric Plates. , 2019, , .		0

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37	Research on DGTD Algorithm of Hybrid Grid. , 2019, , .		0
38	Analytical Derivation of Ellipsoid Conformal Perfectly Matched Layers for Electromagnetic Simulations. IEEE Transactions on Antennas and Propagation, 2019, 67, 4718-4725.	5.1	3
39	New hybrid FDTD algorithm for electromagnetic problem analysis*. Chinese Physics B, 2019, 28, 074102.	1.4	12
40	A Hybrid FDTD Algorithm without the Limitation of CFL Condition. , 2019, , .		1
41	Structural, elastic and electronic properties of new superhard orthorhombic C28. International Journal of Modern Physics B, 2019, 33, 1950227.	2.0	1
42	Comparison of Two Stabilized FETD methods Based on Triangle Elements. , 2019, , .		0
43	Analysis of the Calculation of a Plasma Sheath Using the Parallel SO-DGTD Method. International Journal of Antennas and Propagation, 2019, 2019, 1-9.	1.2	6
44	Radiated fields from an arbitrary polarized dipole with a pulse waveform above half-space. Results in Physics, 2019, 14, 102388.	4.1	3
45	Shift-operator finite-element time-domain dealing with dispersive media. Optik, 2019, 182, 832-838.	2.9	3
46	Absorption of Electromagnetic Wave by Uniform Plasma Plate. , 2019, , .		0
47	A Coupling and Decoupling Device for Pulsed Current Injection in MIL-STD-188-125-2. , 2019, , .		2
48	Analysis of Time-Domain Scattering Characteristics of Large Marine Ships Based on closed-form TDSBR. , 2019, , .		0
49	A Hybrid FETD Algorithm for Electromagnetic Modeling of Fine Structures. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2771-2775.	4.0	6
50	Relationship between the velocity of hypersonic vehicles and the transmission efficiency of radio waves. Waves in Random and Complex Media, 2019, 29, 382-391.	2.7	6
51	Structural, Elastic, and Electronic Properties of Superhard Monoclinic C_{32} under High Pressure. Acta Physica Polonica A, 2019, 136, 940-946.	0.5	2
52	Direct Calculation of Time-Domain Reflected Waves from a Layered Lossy Media. , 2019, , .		2
53	A Fast Unconditionally Stable FETD Algorithm Based on Local Eigenvalue solutions. , 2019, , .		0
54	Pulsed Current Injection Setup and Procedure to Reproduce Intense Transient Electromagnetic Disturbances. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 2065-2068.	2.2	19

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55	Explicit and Unconditionally Stable FDTD Method for Electromagnetic Problem Analysis. , 2018, , .		0
56	Experimental analysis and circuit modeling of pulsed current injection in wire pairs. , 2018, , .		3
57	Analytical Derivation of the Ellipsoid Conformal PML for Electromagnetic simulations. , 2018, , .		0
58	Time-Domain Analytical Expression for Far Radiation Field of Arbitrarily Oriented Dipole above Layered Half Space. , 2018, , .		0
59	Measurement of Scattering Coefficient in Time-Domain and Error Analysis of Dielectric Plate. , 2018, , .		2
60	Unconditionally Stable TDFEM Algorithm Based on â€œBrickâ€•Element. , 2018, , .		0
61	A Hybrid Grid DGTD Algorithm for Tetrahedral and Hexahedron Based on Virtual Element. , 2018, , .		1
62	A novel hybrid sp-sp2 metallic carbon allotrope. Frontiers of Physics, 2018, 13, 1.	5.0	36
63	Simulation of Electromagnetic Waves in a Magnetized Cold Plasma by the SO-DGTD Method. IEEE Transactions on Antennas and Propagation, 2018, 66, 4151-4157.	5.1	12
64	Mechanical Properties and Stability of Body-Centered-Tetragonal C8 at High Pressures. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 939-945.	1.5	5
65	Pressure and Strain Effects on the Structural, Electronic, and Optical Properties of K4 Phosphorus. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 661-668.	1.5	3
66	High-Order SO-DGTD Simulation of Radio Wave Propagation Through Inhomogeneous Weakly Ionized Dusty Plasma Sheath. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2078-2081.	4.0	13
67	Implementation of corner-free truncation strategy in DGTD method. Waves in Random and Complex Media, 2017, 27, 367-380.	2.7	5
68	2-D High-Order DGTD Method and Its Application in Analysis of Sheath Propagation Characteristics. IEEE Transactions on Plasma Science, 2017, 45, 2422-2430.	1.3	5
69	Analysis on the Characteristics of EM Waves Propagation in the Plasma Sheath Surrounding a Hypersonic Vehicle. IEEE Transactions on Plasma Science, 2017, 45, 2922-2928.	1.3	6
70	Implementation of an Approximate Conformal UPML in 2-D DGTD. International Journal of Antennas and Propagation, 2017, 2017, 1-8.	1.2	8
71	Selection of UPML parameters in DGTD calculation. , 2017, , .		1
72	Exact research on the theory of the blackbody thermal radiation. Scientific Reports, 2016, 6, 37214.	3.3	7

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73	Near-Field Coupling Characteristics Analysis of Radome Over Half-Space Under HPEM. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1637-1644.	2.2	8
74	Frequency-Dependent FDTD Algorithm Using Newmark's Method. International Journal of Antennas and Propagation, 2014, 2014, 1-6.	1.2	3
75	Simulation of a microstrip array using parallel FDTD on a supercomputer with 100K CPU cores. , 2014, , .		0
76	Computation of far radiation field of an arbitrarily oriented dipole above layered anisotropic half space. Waves in Random and Complex Media, 2013, 23, 446-460.	2.7	2
77	Analysis EM characteristics of tiny periodic structure with FDTD method. , 2012, , .		0
78	Computation of transient far radiation field of anarbitrarily oriented dipole over the half-space using the reciprocity theorem and Fourier transform. , 2012, , .		0
79	Transient Response of Thin Wire above a Layered Half-Space Using TDIE/FDTD Hybrid Method. International Journal of Antennas and Propagation, 2012, 2012, 1-7.	1.2	3
80	Time domain analysis of arbitrary thin-wire structures horizontally positioned above a layered half space. , 2011, , .		0
81	The general MIPML absorbing boundary condition for frequency-dispersive media in FDTD analyses. , 2011, , .		0
82	Parallel algorithm of FDTD transient multi-extrapolation and its application. , 2011, , .		0
83	A general finite difference time domain method for hybrid dispersive media model. Waves in Random and Complex Media, 2011, 21, 336-347.	2.7	13
84	Transient response analysis of helical antenna using TDIE method. , 2010, , .		0
85	A novel UPML FDTD absorbing boundary condition for dispersive media. Waves in Random and Complex Media, 2010, 20, 511-527.	2.7	15
86	Scattering by a two-dimensional cavity filled with an anisotropic medium. Waves in Random and Complex Media, 2003, 13, 223-240.	1.5	3
87	A hybrid algorithm for electromagnetic problems involving fine structures based on FDTD and FETD with unstable modes removing. Waves in Random and Complex Media, 0, , 1-14.	2.7	1