Nikolaos Kantartzis

List of Publications by Year
in descending order

238 papers	2,111 citations	257450 24 h-index	315739 38 g-index
240 all docs	240 docs citations	240 times ranked	1661 citing authors

#	Article	IF	Citations
1	Finite-difference wave-propagation models for dispersive media: impact of space-time discretization. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2022, ahead-of-print, 1024.	0.9	0
2	Accurate Time-Domain Modeling of Arbitrarily Shaped Graphene Layers Utilizing Unstructured Triangular Grids. Axioms, 2022, 11, 44.	1.9	1
3	Enhanced beamforming techniques for cylindrical-substrate microstrip array antennas. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2022, ahead-of-print, .	0.9	0
4	Multiwideband Terahertz Communications Via Tunable Graphene-Based Metasurfaces in 6G Networks: Graphene Enables Ultimate Multiwideband THz Wavefront Control. IEEE Vehicular Technology Magazine, 2022, 17, 16-25.	3.4	14
5	Bimorphic Floquet topological insulators. Nature Materials, 2022, 21, 634-639.	27.5	30
6	A Nonstandard Path Integral Model for Curved Surface Analysis. Energies, 2022, 15, 4322.	3.1	0
7	Antenna Array Beamforming Based on Deep Learning Neural Network Architectures. , 2022, , .		2
8	Direction of Arrival Estimation Applied to Antenna Arrays using Convolutional Neural Networks. , 2022, , .		0
9	A Novel Utilization of NARX for Antenna Array Adaptive Beamforming. , 2022, , .		1
10	A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects. IEEE Transactions on Antennas and Propagation, 2021, 69, 1440-1454.	5.1	71
11	An Adaptive Sparse Anisotropic Polynomial-Chaos Expansion Algorithm Applied to EMC Problems. IEEE Electromagnetic Compatibility Magazine, 2021, 10, 80-87.	0.1	0
12	Radiation Efficiency Enhancement of Graphene Plasmonic Devices Using Matching Circuits. Technologies, 2021, 9, 4.	5.1	1
13	Design of an optimized graphene plasmonic splitter utilizing higher-order mode propagation. , 2021, , .		1
14	Wavefront engineering with optimally loaded absorbing metamirrors. Physical Review B, 2021, 103, .	3.2	2
15	Multiobjective Ant Lion Approaches Applied to Electromagnetic Device Optimization. Technologies, 2021, 9, 35.	5.1	5
16	A Consistent Scheme for the Precise FDTD Modeling of the Graphene Interband Contribution. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	4
17	Chaotic Jaya Approaches to Solving Electromagnetic Optimization Benchmark Problems. Telecom, 2021, 2, 222-231.	2.6	6
18	Modeling of Stochastic EMC Problems with Anisotropic Polynomial Chaos Expansions. IEEE Electromagnetic Compatibility Magazine, 2021, 10, 70-79.	0.1	1

#	Article	IF	Citations
19	Nonlinear Phenomena of Graphene Surface Waves due to Carrier Density Fluctuations. , 2021, , .		0
20	Design, Fabrication, and Characterization of a Proof-of-Concept Multi-functional Microwave Metasurface using Static Loads. , 2021, , .		0
21	Modeling the Third-Order Electrodynamic Response of Graphene via an Efficient Finite-Difference Time-Domain Scheme. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	2
22	Stochastic investigation of graphene structures with efficient polynomial models. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 611-622.	0.9	0
23	Quadrupolarisability extraction for planar metamaterial scatterers via far-field response. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 647-657.	0.9	1
24	Design of efficient graphene plasmonic coupling circuits for THz applications. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 659-669.	0.9	0
25	An adaptive sparse polynomial-chaos technique based on anisotropic indices. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 691-707.	0.9	1
26	Transcranial ultrasonic propagation and enhanced brain imaging exploiting the focusing effect of the skull. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 671-682.	0.9	2
27	Toward the Realization of a Programmable Metasurface Absorber Enabled by Custom Integrated Circuit Technology. IEEE Access, 2020, 8, 92986-92998.	4.2	24
28	Scalability Analysis of Programmable Metasurfaces for Beam Steering. IEEE Access, 2020, 8, 105320-105334.	4.2	36
29	Optimal Design of Aperiodic Reconfigurable Antenna Array Suitable for Broadcasting Applications. Electronics (Switzerland), 2020, 9, 818.	3.1	5
30	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Softwareâ€Defined Metasurfaces with an Embedded Network of Controllers. Advanced Optical Materials, 2020, 8, 2000783.	7.3	145
31	Efficient adjustment of finite graphene scattering properties via magnetic-bias control for advanced beam manipulation. AIP Advances, 2020, 10, .	1.3	1
32	Symmetry-controlled edge states in the type-II phase of Dirac photonic lattices. Nature Communications, 2020, 11, 2074.	12.8	13
33	Homogenization of 3D metamaterial particle arrays for oblique propagation via a point-dipole analysis. EPJ Applied Physics, 2020, 91, 20902.	0.7	1
34	Effective Design of Graphene Patch Arrays for Adjustable Plane-Wave Scattering. , 2020, , .		1
35	A Stochastic Finite-Difference Time-Domain (FDTD) Method for Assessing Material and Geometric Uncertainties in Rectangular Objects. Technologies, 2020, 8, 12.	5.1	3
36	Adaptable Nonstandard FDTD Schemes for the Precise Evaluation of Electrostatic Fields. , 2020, , .		0

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37	Patch Antenna Design for C2C Communication Systems Using Monarch Butterfly Optimization. , 2019, , .		1
38	Uncertainty Study of Periodic-Grating Wideband Filters With Sparse Polynomial-Chaos Expansions. IEEE Photonics Technology Letters, 2019, 31, 1499-1502.	2.5	6
39	Radio Environment Maps for 5G Cognitive Radio Network. , 2019, , .		10
40	A Stochastic FDTD Method for Rectangular Objects with Geometric Uncertainties. , 2019, , .		5
41	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. IEEE Access, 2019, 7, 122931-122948.	4.2	41
42	Intrusive polynomial-chaos approach for stochastic problems with axial symmetry. IET Microwaves, Antennas and Propagation, 2019, 13, 782-788.	1.4	3
43	Efficient Uncertainty Assessment in EM Problems via Dimensionality Reduction of Polynomial-Chaos Expansions. Technologies, 2019, 7, 37.	5.1	2
44	Intelligent Metasurfaces with Continuously Tunable Local Surface Impedance for Multiple Reconfigurable Functions. Physical Review Applied, 2019, 11, .	3.8	108
45	Genetic Optimization With Mixed-Order Prism Macroelements for 3-D Metamaterial Multilayered Structures. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	3
46	Combining standard with optimised split-step finite-difference time-domain methods for the study of graphene configurations. IET Science, Measurement and Technology, 2019, 13, 1150-1157.	1.6	2
47	3D Channel Modeling and Characterization for Hypersurface Empowered Indoor Environment at 60 GHz Millimeter-Wave Band. , 2019, , .		9
48	Joint Compressed Sensing and Manipulation of Wireless Emissions with Intelligent Surfaces. , 2019, , .		19
49	Eigenmode Solution for TE-Wave Propagation Through Anisotropic Metamaterial Particle 3-D Arrays via Dipole Approximation. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	0
50	Regression-Based Stochastic Study of Electromagnetic Fields Due to Lightning Strikes. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1630-1638.	2.2	1
51	Total-Field/Scattered-Field Separation Based on H -field Correction for the Nonstandard Finite-Difference Time-Domain. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
52	Evaluation of magnetic field's uniformity inside electromagnetic coils using graphene. AIP Advances, 2018, 8, 056810.	1.3	0
53	Efficient Krylov-based 3D FVTD schemes with adaptive domain decomposition for graphene and nanostructured EMC components. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2236.	1.9	1
54	Investigation of uncertainty in lightning-produced EM fields with a polynomial-chaos FDTD approach. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2238.	1.9	8

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55	Precise Modeling of Magnetically Biased Graphene Through a Recursive Convolutional FDTD Method. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	13
56	Novel Methodology for Designing Antenna Arrays with Reduced Number of Elements Based on Differential Evolution with Ranking-Based Mutation Operators. , 2018, , .		0
57	FULL POLARIZABILITY MATRIX EXTRACTION FORMULAS FOR ELECTRICALLY SMALL PARTICLES VIA REFLECTION/TRANSMISSION COEFFICIENTS. Progress in Electromagnetics Research B, 2018, 82, 93-114.	1.0	5
58	Development of a Transmission Line Model for the Thickness Prediction of Thin Films via the Infrared Interference Method. Technologies, 2018, 6, 122.	5.1	3
59	A controllable-accuracy stochastic time-domain technique for randomly varying microwave applications. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2018, 37, 1768-1780.	0.9	0
60	Programmable Metasurfaces: State of the Art and Prospects. , 2018, , .		49
61	Performance analysis of waveguide-mode resonant optical filters with stochastic design parameters. Applied Optics, 2018, 57, 3106.	1.8	5
62	Intercell Wireless Communication in Software-defined Metasurfaces. , 2018, , .		28
63	Efficient stochastic EM studies via dimensionality reduction of polynomial-chaos expansions. , 2018, , .		3
64	FDTD Method for Wave Propagation in Havriliak–Negami Media Based on Fractional Derivative Approximation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	9
65	Wide-Angle Elimination of TF/SF-Generated Spurious Waves in the Nonstandard FDTD Technique. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
66	A Convolutional PML Scheme for the Efficient Modeling of Graphene Structures Through the ADE-FDTD Technique. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	11
67	Parameter Estimation for Dielectric Media Variations Based on the FDTD Method and the Monge–Kantorovich Mass Transfer Problem. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	0
68	Radiation Efficiency Enhancement of Graphene THz Antennas Utilizing Metamaterial Substrates. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2054-2057.	4.0	40
69	TF/SF separation characteristics in the 3D NS-FDTD technique using rectangular cells. , 2017, , .		0
70	Wireless power transfer via negative permittivity metamaterials as resonating elements. , 2017, , .		2
71	Optimized wireless power transfer schemes with metamaterial-based resonators. , 2017, , .		4
72	Circular and square SRR exploitation as a means for wireless power transfer. , 2017, , .		1

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73	A stochastic FDTD approach for assessing random media uncertainties in polar coordinates. , 2017, , .		1
74	Performance improvement of various antennas using inclusions of split-ring resonators. , 2017, , .		0
75	Reflection/transmission calculation of complex particle slabs for normal incidence through dipole approximation. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	1
76	Emergence of Type-II Dirac Points in Graphynelike Photonic Lattices. Physical Review Letters, 2017, 119, 113901.	7.8	41
77	Stochastic LOD-FDTD method for two-dimensional electromagnetic uncertainty problems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 1442-1456.	0.9	4
78	Rigorous time-domain analysis of statistically oriented graphene sheet fluctuations. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 1351-1363.	0.9	1
79	High-order stochastic-FDTD schemes for electromagnetic field statistical uncertainties. , 2017, , .		0
80	Graphene sheet modeling with an efficient unconditionally-stable hybrid approach. , 2017, , .		0
81	Efficient uncertainty analysis of waveguide-mode resonant optical filters. , 2017, , .		0
82	Optimally-designed metamaterial slabs for enhanced receiving performance of patch antennas. , 2017, , .		0
83	Connectivity and coverage in machine-type communications. , 2017, , .		12
84	Wide-angle absorption of visible light from simple bilayers. Applied Optics, 2017, 56, 9779.	1.8	19
85	Waveguide optimization for dielectric media variation based on the FDTD method and the Monge-Kantorovich mass transfer problem. , 2016, , .		0
86	Efficiency enhancement of metamaterial-inspired wireless energy transfer topologies. , 2016, , .		1
87	Wide-angle elimination of TF/SF-generated spurious waves in the nonstandard-FDTD technique. , 2016, , .		0
88	Effective parameter retrieval of 3D bianisotropic scatterer arrays for oblique propagation. , 2016, , .		0
89	Modified perfectly matched layers in finite-difference time-domain schemes for the efficient truncation of propagating graphene surface waves. , 2016, , .		0
90	FDTD method for wave propagation in Havriliak-Negami media based on fractional derivative approximation. , 2016, , .		0

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91	A convolutional PML scheme for the efficient modeling of graphene structures through the ADE-FDTD technique. , 2016, , .		0
92	Polynomial-chaos time-domain method for uncertainty analysis of axially-symmetric structures. , 2016, , .		1
93	Effective parameter calculation of 3D bianisotropic scatterer arrays through extracted polarizabilities. , 2016, , .		1
94	Polarizability matrix retrieval of a non-planar chiral particle through scattering parameters. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	2
95	Exploitation of Piezoelectric Micro-Devices as Building Blocks of Controllable Terahertz Complex Materials. Materials Science Forum, 2016, 856, 135-140.	0.3	0
96	Generalized Thin-Wire Hybrid VFETD/FDTD Schemes for Nanocomposite and Graphene Applications. Materials Science Forum, 2016, 856, 58-63.	0.3	0
97	A deployable routing system for nanonetworks. , 2016, , .		15
98	On the application of Snell's law for refracted graphene surface plasmon polaritonwaves. , 2016, , .		0
99	Programmable omega-based complex medium for beam steering applications. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 1890-1899.	0.9	1
100	Development of optimized operators based on spherical-harmonic expansions for 3D FDTD schemes. International Journal of Applied Electromagnetics and Mechanics, 2016, 51, S57-S66.	0.6	3
101	Piezoelectrically programmable electric-field driven LC (ELC) resonators acting as THz modulators. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 1460-1467.	0.9	2
102	Unconditionally-stable time-domain approach for uncertainty assessment in transmission lines. , 2016, , .		5
103	Statistical analysis of microwave components through a 3-D stochastic-FDTD technique. , 2016, , .		0
104	DAMA: A data mining forecasting DBA scheme for XG-PONs. , 2016, , .		9
105	Rigorous analysis of 3-D statistically-varying EMC problems via a generalized stochastic FDTD method. , 2016, , .		1
106	Metamaterial-based wireless power transfer through interdigitated SRRs. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 1338-1345.	0.9	3
107	Construction of 3D FDTD schemes with frequency-dependent operator coefficients. , 2016, , .		1
108	Mode propagation analysis of magnetically biased curved graphene microstrips. , 2016, , .		0

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109	Metamaterial-based 3D Luneburg lens antenna design for microwave frequencies. , 2016, , .		1
110	Transmitted and reflected graphene surface waves due to substrate discontinuities. , 2016, , .		0
111	Efficient suppression of artificial reflections in the TF/SF scheme for the nonstandard FDTD method. , 2016, , .		2
112	Modal analysis of graphene microtubes utilizing a two-dimensional vectorial finite element method. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	6
113	Effective-surface modeling of infinite periodic metascreens exhibiting the extraordinary transmission phenomenon. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 434.	2.1	1
114	An Enhanced Total-Field/Scattered-Field Scheme for the 3-D Nonstandard Finite-Difference Time-Domain Method. IEEE Transactions on Magnetics, 2016, 52, 1-5.	2.1	4
115	Distortion of surface plasmon polariton propagation on graphene due to chemical potential variation. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	6
116	Accurate electromagnetic field exposure characterisation due to mediated lightning strikes via an efficient finite‐difference time‐domain‐based human body model. IET Science, Measurement and Technology, 2016, 10, 124-129.	1.6	1
117	Consistent Integral Equation Modeling of Cloaking Planar Microstrip Antennas. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	1
118	Efficient Integration of High-Order Stencils Into the ADI-FDTD Method. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	3
119	A Generalized Domain-Decomposition Stochastic FDTD Technique for Complex Nanomaterial and Graphene Structures. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9
120	Impact assessment of bias network topology on the performance of electrothermally reconfigurable metamaterials. , 2015, , .		0
121	Accelerated unconditionally stable FDTD scheme with modified operators. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1564-1577.	0.9	1
122	A curvilinear stochastic-FDTD algorithm for 3-D EMC problems with media uncertainties. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1637-1651.	0.9	6
123	Wireless power transfer via spiral metamaterials. , 2015, , .		0
124	Design and Development of Software Defined Metamaterials for Nanonetworks. IEEE Circuits and Systems Magazine, 2015, 15, 12-25.	2.3	84
125	Wireless energy transfer by means of metamaterial components. , 2015, , .		3
126	Powering nanonetworks by exploiting metamaterial-inspired wireless energy transfer. , 2015, , .		6

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127	Modulating nanonetwork communications at THz frequencies by means of electrothermally reconfigurable ELC resonators. , 2015, , .		0
128	Stochastic FDTD/VFETD schemes with MOR for random nanomaterials and graphene nanostructures. , 2015, , .		0
129	Reconfigurable metamaterial components exploiting two-hot-arm electrothermal actuators. Microsystem Technologies, 2015, 21, 2097-2107.	2.0	7
130	A Loss-Controllable Absorbing Boundary Condition for Surface Plasmon Polaritons Propagating Onto Graphene. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	12
131	A 4-D Subgrid Scheme for the NS-FDTD Technique Using the CNS-FDTD Algorithm With the Shepard Method and a Gaussian Smoothing Filter. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	6
132	Parallel LOD-FDTD Method With Error-Balancing Properties. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
133	A 3-D Stochastic FVTD Method Based on Reduced-Order Modeling for Statistically Random Media in Nano-Electromagnetic Applications. IEEE Transactions on Magnetics, 2015, 51, 1-5.	2.1	1
134	GPU-Based Calculation of Lightning-Generated Electromagnetic Fields in 3-D Problems With Statistically Defined Uncertainties. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1556-1567.	2.2	8
135	Generalized non-local surface susceptibility model and Fresnel coefficients for the characterization of periodic metafilms with bianisotropic scatterers. Journal of Computational Physics, 2015, 281, 251-268.	3.8	13
136	Semi-analytic technique for the polarizability extraction of chiral helix particles. , 2014, , .		0
137	Rigorous time-domain graphene representation as a surface boundary condition. , 2014, , .		3
138	GPU-based three-dimensional calculation of lightning-generated electromagnetic fields. , 2014, , .		2
139	FDTD analysis of 3D lightning problems with material uncertainties on GPU architecture. , 2014, , .		0
140	Programmable terahertz metamaterials through V-beam electrothermal devices. Applied Physics A: Materials Science and Processing, 2014, 117, 433-438.	2.3	8
141	Tunable terahertz metamaterials by means of piezoelectric MEMS actuators. Europhysics Letters, 2014, 107, 58004.	2.0	14
142	Miniaturized directivity-adjustable antennas for enhanced vehicular wireless communications and EMC-optimized automotive electronics. , 2014, , .		0
143	Robust technique for the polarisability matrix retrieval of bianisotropic scatterers via their reflection and transmission coefficients. IET Microwaves, Antennas and Propagation, 2014, 8, 1398-1407.	1.4	21
144	Reconfigurable Terahertz Metamaterials through Piezoelectric Microgrippers. , 2014, , .		1

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145	Surface plasmon polariton waves onto graphene's surface over an anisotropic metamaterial substrate. Proceedings of SPIE, 2014, , .	0.8	1
146	Multi-band, highly absorbing, microwave metamaterial structures. Applied Physics A: Materials Science and Processing, 2014, 115, 555-561.	2.3	45
147	A 3-D Interlayer-Based FDTD/NS-FDTD Connection Technique Combined With a Stable Subgrid Model for Low-Cost Simulations. IEEE Transactions on Magnetics, 2014, 50, 153-156.	2.1	4
148	Consistent Study of Graphene Structures Through the Direct Incorporation of Surface Conductivity. IEEE Transactions on Magnetics, 2014, 50, 161-164.	2.1	53
149	GPU-Accelerated Efficient Implementation of FDTD Methods With Optimum Time-Step Selection. IEEE Transactions on Magnetics, 2014, 50, 477-480.	2.1	6
150	Effective parameter extraction of 3D metamaterial arrays via first-principles homogenization theory. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 291-297.	2.0	27
151	Precise Crosstalk Assessment in Complex Nanointerconnects via a Family of Unconditionally-Stable Nonstandard Time-Domain Algorithms. Materials Science Forum, 2014, 792, 227-232.	0.3	0
152	Design of a metamaterial circular patch antenna loaded with an ε-negative core. , 2014, , .		0
153	Enhanced Analysis of Multiconductor Nanostructured Devices via a Compact Block FDTD/VFETD Method. IEEE Transactions on Magnetics, 2014, 50, 173-176.	2.1	0
154	Efficient Stochastic FDTD Algorithm with Optimised GPU Acceleration. , 2014, , .		0
155	On the Use of FDTD and Ray-Tracing Schemes in the Nanonetwork Environment. IEEE Communications Letters, 2014, 18, 1823-1826.	4.1	13
156	Design of nanocomposite EMC structures via unconditionally-stable nonstandard time-domain schemes and efficient GPU implementation. International Journal of Applied Electromagnetics and Mechanics, 2014, 46, 389-399.	0.6	2
157	Miniaturization of metamaterial electrical resonators at the terahertz spectrum. Proceedings of SPIE, 2014, , .	0.8	1
158	Corrections to â€œSurface Susceptibility Bianisotropic Matrix Model for Periodic Metasurfaces of Uniaxially Mono-Anisotropic Scatterers Under Oblique TE-Wave Incidenceâ€•[Dec 12 5753-5767]. IEEE Transactions on Antennas and Propagation, 2013, 61, 4405-4405.	5.1	1
159	Graphene-based patch nano-antennas with optimal width-adjustable radiation characteristics. , 2013, , .		1
160	Consistent Modeling of Periodic Metasurfaces With Bianisotropic Scatterers for Oblique TE-Polarized Plane Wave Excitation. IEEE Transactions on Magnetics, 2013, 49, 1769-1772.	2.1	7
161	Accuracy-Adjustable Nonstandard LOD-FDTD Schemes for the Design of Carbon Nanotube Interconnects and Nanocomposite EMC Shields. IEEE Transactions on Magnetics, 2013, 49, 1821-1824.	2.1	9
162	Enhanced Thin-Wire Representation Models in a High-Order FDTD/TLM Method for Electrically Large Microwave Applications. IEEE Transactions on Magnetics, 2013, 49, 1813-1816.	2.1	4

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163	Plasmon Mode Excitation on Graphene Layers via Obliquely-Incident Focused Wideband Pulses in Rigorous Time-Domain Algorithms. IEEE Transactions on Magnetics, 2013, 49, 1773-1776.	2.1	4
164	Substrate controllable transverse magnetic surface waves onto a graphene layer at far-infrared frequencies. , 2013, , .		1
165	Non-local surface susceptibility model for periodic bianisotropic metafilms. , 2013, , .		0
166	First-principles parameter retrieval of complex single-negative bulk metamaterials. , 2013, , .		0
167	Rigorous modelling and design of microtuned resonator filters and carbon nanointerconnects via a nonstandard LOD-FDTD technique. , 2013, , .		0
168	Substrate controllable transverse magnetic surface waves onto a graphene layer at far-infrared frequencies. , 2013, , .		1
169	First-principles parameter retrieval of complex single-negative bulk metamaterials. , 2013, , .		0
170	ENHANCED DESIGN OF NARROWBAND FILTERS BASED ON THE EXTRAORDINARY TRANSMISSION THROUGH SINGLE FISHNET STRUCTURES. Progress in Electromagnetics Research, 2013, 143, 349-368.	4.4	0
171	A FAMILY OF ULTRA-THIN, POLARIZATION-INSENSITIVE, MULTI-BAND, HIGHLY ABSORBING METAMATERIAL STRUCTURES. Progress in Electromagnetics Research, 2013, 136, 579-594.	4.4	46
172	Subcell dispersive finite-difference time-domain schemes for infinite graphene-based structures. IET Microwaves, Antennas and Propagation, 2012, 6, 377.	1.4	10
173	A polarization-/angle-insensitive, bandwidth-optimized, metamaterial absorber in the microwave regime. Applied Physics A: Materials Science and Processing, 2012, 109, 1065-1070.	2.3	35
174	RCS analysis of finite graphene sheets through an enhanced frequency-dependent FDTD method. , 2012, , .		2
175	Surface Susceptibility Bianisotropic Matrix Model for Periodic Metasurfaces of Uniaxially Mono-Anisotropic Scatterers Under Oblique TE-Wave Incidence. IEEE Transactions on Antennas and Propagation, 2012, 60, 5753-5767.	5.1	34
176	Compact Double-Negative Metamaterials Based on Electric and Magnetic Resonators. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 480-483.	4.0	38
177	Wedge-shaped dual planar log-periodic antenna with enhanced directivity for WiMAX applications. , 2012, , .		2
178	Spectrally-enahnced hybrid FVTD/PSTD schemes for electrically-large EMC structures. , 2012, , .		0
179	A class of multi-band, polarization-insensitive, microwave metamaterial absorbers in EMC analysis. , 2012, , .		8
180	Hybrid unconditionally stable highâ€order nonstandard schemes with optimal errorâ€controllable spectral resolution for complex microwave problems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2012, 25, 621-644.	1.9	10

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181	Optimal Modeling of Infinite Graphene Sheets via a Class of Generalized FDTD Schemes. IEEE Transactions on Magnetics, 2012, 48, 379-382.	2.1	94
182	A Spectrally-Accurate FVTD Technique for Complicated Amplification and Reconfigurable Filtering EMC Devices. IEEE Transactions on Magnetics, 2012, 48, 383-386.	2.1	0
183	Efficient Metafilm/Metasurface Characterization for Obliquely Incident TE Waves via Surface Susceptibility Models. IEEE Transactions on Magnetics, 2012, 48, 367-370.	2.1	12
184	Combined FVTD/PSTD Schemes with Enhanced Spectral Accuracy for the Design of Large-Scale EMC Applications. Advanced Electromagnetics, 2012, 1, 41.	1.0	2
185	Polarizability Matrix Extraction of a Bianisotropic Metamaterial from the Scattering Parameters of Normally Incident Plane Waves. Advanced Electromagnetics, 2012, 1, 64.	1.0	33
186	Reconfigurable bowtie electromagnetic bandgap€based microwave filters. Microwave and Optical Technology Letters, 2011, 53, 2472-2474.	1.4	0
187	Consistent analysis and rigorous characterization of infinite graphene layers via a subcell frequency-dependent FDTD technique. , 2011, , .		2
188	A combined Bowtie-Peano antenna for wideband performance. , 2011, , .		0
189	Vehicle-to-vehicle communication system EMI characterization on automotive electronics. , 2010, , .		5
190	Imaging properties of lossless double-negative metamaterial wedges: Analytical and numerical investigation. Physical Review B, 2009, 80, .	3.2	0
191	Development of accuracy€enhanced time€domain schemes for bi€isotropic media and chiral metamaterials. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 7-21.	0.9	2
192	Stencil-Optimized Time-Domain Algorithms for Compact Circular Patch Antennas With Anisotropic Metamaterial Substrates. IEEE Transactions on Magnetics, 2009, 45, 1368-1371.	2.1	5
193	Signal Integrity and EMC/EMI Measurement Analysis of RF MEMS Devices via a Combined FETD/Higher Order FVTD Technique. IEEE Transactions on Magnetics, 2009, 45, 1404-1407.	2.1	2
194	A Hybrid Lattice-Adaptable FDTD/PSTD Method for the Design of Composite Bi-Isotropic Absorbers in EMC Anechoic Chambers. IEEE Transactions on Magnetics, 2009, 45, 1642-1645.	2.1	4
195	Systematic surface waves analysis at the interfaces of composite DNG/SNG media. Optics Express, 2009, 17, 8513.	3.4	9
196	A Combined Stencil-Adjustable Time-Domain/FETD Method for Electrically-Large EMC Structures. , 2009, , .		0
197	Design of Hybrid Time-Domain Schemes With Optimal Gridding Density and Material-Interface Sensitivity for Large-Scale EMC Problems. IEEE Transactions on Magnetics, 2008, 44, 1462-1465.	2.1	4
198	Modern EMC Analysis Techniques Volume I: Time-Domain Computational Schemes. Synthesis Lectures on Computational Electromagnetics, 2008, 3, 1-224.	0.2	5

#	Article	IF	Citations
199	Modern EMC Analysis Techniques Volume II: Models and Applications. Synthesis Lectures on Computational Electromagnetics, 2008, 3, 1-238.	0.2	8
200	Temporal characteristics of resonant surface polaritons in superlensing planar double-negative slabs: Development of analytical schemes and numerical models. Physical Review E, 2007, 76, 046606.	2.1	6
201	A Wideband ADI-FDTD Algorithm for the Design of Double Negative Metamaterial-Based Waveguides and Antenna Substrates. IEEE Transactions on Magnetics, 2007, 43, 1329-1332.	2.1	16
202	Focusing Efficiency Analysis and Performance Optimization of Arbitrarily Sized DNG Metamaterial Slabs With Losses. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4111-4121.	4.6	8
203	Higher Order FDTD Schemes for Waveguide and Antenna Structures. Synthesis Lectures on Computational Electromagnetics, 2006, 1, 1-226.	0.2	25
204	Rigorous ADIâ€FDTD analysis of leftâ€handed metamaterials in optimallyâ€designed EMC applications. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 677-690.	0.9	8
205	Optimized ADI-FDTD analysis of circularly polarized microstrip and dielectric resonator antennas. IEEE Microwave and Wireless Components Letters, 2006, 16, 63-65.	3.2	8
206	An explicit weighted essentially nonoscillatory time-domain algorithm for 3-D EMC applications with arbitrary media interfaces. IEEE Transactions on Magnetics, 2006, 42, 803-806.	2.1	6
207	Numerical modeling of an indoor wireless environment for the performance evaluation of WLAN systems. IEEE Transactions on Magnetics, 2006, 42, 839-842.	2.1	17
208	Development of a reduced dispersion-error method for the efficient treatment of time-dependent electromagnetic wave interactions. IEEE Transactions on Magnetics, 2006, 42, 831-834.	2.1	0
209	A topologically consistent class of 3-D higher order curvilinear FDTD schemes for dispersion-optimized EMC and material modeling. Journal of Materials Processing Technology, 2005, 161, 210-217.	6.3	9
210	Wideband numerical modelling and performance optimisation of arbitrarily-shaped anechoic chambers via an unconditionally stable time-domain technique. Electrical Engineering, 2005, 88, 55-81.	2.0	7
211	An Unconditionally Stable Higher Order ADI-FDTD Technique for the Dispersionless Analysis of Generalized 3-D EMC Structures. IEEE Transactions on Magnetics, 2004, 40, 1436-1439.	2.1	26
212	A Higher Order Nonstandard FDTD-PML Method for the Advanced Modeling of Complex EMC Problems in Generalized 3-D Curvilinear Coordinates. IEEE Transactions on Electromagnetic Compatibility, 2004, 46, 2-11.	2.2	26
213	A 3D multimodal FDTD algorithm for electromagnetic and acoustic propagation in curved waveguides and bent ducts of varying crossâ€section. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 613-624.	0.9	2
214	Generalised higher-order FDTD-PML algorithm for enhanced analysis of 3-D waveguiding EMC structures in curvilinear coordinates. IET Microwaves Antennas and Propagation, 2003, 150, 351.	1.2	11
215	Higher order approaches of FDTD and TVFE methods for the accurate analysis of fractal antenna arrays. IEEE Transactions on Magnetics, 2003, 39, 1230-1233.	2.1	5
216	Performance optimization of the PML absorber in lossy media via closed-form expressions of the reflection coefficient. IEEE Transactions on Magnetics, 2003, 39, 1234-1237.	2.1	5

#	ARTICLE	IF	CITATIONS
217	A nonstandard higher order FDTD algorithm for 3-D arbitrarily and fractal-shaped antenna structures on general curvilinear lattices. IEEE Transactions on Magnetics, 2002, 38, 737-740.	2.1	7
218	Unified higher-order curvilinear FDTD-PMLs for 3-D electromagnetics and advective acoustics. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2002, 21, 451-471.	0.9	2
219	Sierpinski double-gasket antenna investigated with 3-D FDTD conformal technique. Electronics Letters, 2002, 38, 107.	1.0	3
220	A comparative study of the biological effects of various mobile phone and wireless LAN antennas. IEEE Transactions on Magnetics, 2002, 38, 777-780.	2.1	26
221	A higher-order unsplit-field perfectly matched layer for the reflectionless truncation of 3-D spherical FDTD lattices. Electrical Engineering, 2002, 84, 173-187.	2.0	3
222	Zero reflection coefficient in discretized PML. IEEE Microwave and Wireless Components Letters, 2001, 11, 155-157.	3.2	8
223	Accurate FDTD wavelet–Galerkin representation of field singularities near conductive wedges. IET Microwaves Antennas and Propagation, 2001, 148, 163.	1.2	2
224	A nonorthogonal higher-order wavelet-oriented FDTD technique for 3-D waveguide structures on generalized curvilinear grids. IEEE Transactions on Magnetics, 2001, 37, 3264-3268.	2.1	15
225	A generalized methodology based on higher-order conventional and non-standard FDTD concepts for the systematic development of enhanced dispersionless wide-angle absorbing perfectly matched layers. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2000, 13, 417-440.	1.9	33
226	Fully nonorthogonal higher-order FDTD schemes for the systematic development of 3-D PML's in general curvilinear coordinates. IEEE Transactions on Magnetics, 2000, 36, 912-916.	2.1	9
227	The nonorthogonal finite integration technique applied to 2D- and 3D-eigenvalue problems. IEEE Transactions on Magnetics, 2000, 36, 897-901.	2.1	14
228	A nonorthogonally-oriented higher-order FDTD technique for 3-D waveguide and antenna structures on curvilinear grids. , 2000, , .		0
229	Nondiagonally anisotropic PML: a generalized unsplit wide-angle absorber for the treatment of the near-grazing effect in FDTD meshes. IEEE Transactions on Magnetics, 2000, 36, 907-911.	2.1	4
230	A hybrid FDTD-wavelet-Galerkin technique for the numerical analysis of field singularities inside waveguides. IEEE Transactions on Magnetics, 2000, 36, 902-906.	2.1	7
231	A fully explicit Whitney element-time domain scheme with higher order vector finite elements for three-dimensional high frequency problems. IEEE Transactions on Magnetics, 1998, 34, 3288-3291.	2.1	21
232	The implications of parallel processing on h-p adaptive finite element analysis for electromagnetics. IEEE Transactions on Magnetics, 1998, 34, 3284-3287.	2.1	6
233	A higher-order FDTD technique for the implementation of enhanced dispersionless perfectly matched layers combined with efficient absorbing boundary conditions. IEEE Transactions on Magnetics, 1998, 34, 2736-2739.	2.1	26
234	A comparative study of the Berenger perfectly matched layer, the superabsorption technique and several higher-order ABC's for the FDTD algorithm in two and three dimensional problems. IEEE Transactions on Magnetics, 1997, 33, 1460-1463.	2.1	21

#	Article	IF	Citations
235	Analytical and numerical solution of the eddy-current problem in spherical coordinates based on the second-order vector potential formulation. IEEE Transactions on Magnetics, 1997, 33, 2461-2472.	2.1	34
236	TRANSIENT ANALYSIS OF ELECTROMAGNETIC FIELD PROPAGATION IN THE VICINITY OF MILLIMETRE WAVEGUIDE STRUCTURES WITH AN EFFICIENT FINITEâ€DIFFERENCE TIMEâ€DOMAIN TECHNIQUE. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1995, 14, 191-195.	0.9	0
237	Analysis of multiport waveguide structures by a higher-order FDTD methodology based on non-orthogonal curvilinear grids. , 0, , .		1
238	A Wideband ADI-FDTD Algorithm for the Design of Double Negative Metamaterial-BasedWaveguides and Antenna Substrates. , 0, , .		0