

Nikolaos Kantartzis

List of Publications by Year in descending order

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238
papers

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240
docs citations

240
times ranked

1661
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Software-Defined Metasurfaces with an Embedded Network of Controllers. <i>Advanced Optical Materials</i> , 2020, 8, 2000783.	7.3	145
2	Intelligent Metasurfaces with Continuously Tunable Local Surface Impedance for Multiple Reconfigurable Functions. <i>Physical Review Applied</i> , 2019, 11, .	3.8	108
3	Optimal Modeling of Infinite Graphene Sheets via a Class of Generalized FDTD Schemes. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 379-382.	2.1	94
4	Design and Development of Software Defined Metamaterials for Nanonetworks. <i>IEEE Circuits and Systems Magazine</i> , 2015, 15, 12-25.	2.3	84
5	A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 1440-1454.	5.1	71
6	Consistent Study of Graphene Structures Through the Direct Incorporation of Surface Conductivity. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 161-164.	2.1	53
7	Programmable Metasurfaces: State of the Art and Prospects. , 2018, , .		49
8	A FAMILY OF ULTRA-THIN, POLARIZATION-INSENSITIVE, MULTI-BAND, HIGHLY ABSORBING METAMATERIAL STRUCTURES. <i>Progress in Electromagnetics Research</i> , 2013, 136, 579-594.	4.4	46
9	Multi-band, highly absorbing, microwave metamaterial structures. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 555-561.	2.3	45
10	Emergence of Type-II Dirac Points in Graphynelike Photonic Lattices. <i>Physical Review Letters</i> , 2017, 119, 113901.	7.8	41
11	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. <i>IEEE Access</i> , 2019, 7, 122931-122948.	4.2	41
12	Radiation Efficiency Enhancement of Graphene THz Antennas Utilizing Metamaterial Substrates. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 2054-2057.	4.0	40
13	Compact Double-Negative Metamaterials Based on Electric and Magnetic Resonators. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012, 11, 480-483.	4.0	38
14	Scalability Analysis of Programmable Metasurfaces for Beam Steering. <i>IEEE Access</i> , 2020, 8, 105320-105334.	4.2	36
15	A polarization-/angle-insensitive, bandwidth-optimized, metamaterial absorber in the microwave regime. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 1065-1070.	2.3	35
16	Analytical and numerical solution of the eddy-current problem in spherical coordinates based on the second-order vector potential formulation. <i>IEEE Transactions on Magnetics</i> , 1997, 33, 2461-2472.	2.1	34
17	Surface Susceptibility Bianisotropic Matrix Model for Periodic Metasurfaces of Uniaxially Mono-Anisotropic Scatterers Under Oblique TE-Wave Incidence. <i>IEEE Transactions on Antennas and Propagation</i> , 2012, 60, 5753-5767.	5.1	34
18	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. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2000, 13, 417-440.	1.9	33

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19	Polarizability Matrix Extraction of a Bianisotropic Metamaterial from the Scattering Parameters of Normally Incident Plane Waves. <i>Advanced Electromagnetics</i> , 2012, 1, 64.	1.0	33
20	Bimorphic Floquet topological insulators. <i>Nature Materials</i> , 2022, 21, 634-639.	27.5	30
21	Intercell Wireless Communication in Software-defined Metasurfaces. , 2018, , .		28
22	Effective parameter extraction of 3D metamaterial arrays via first-principles homogenization theory. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2014, 12, 291-297.	2.0	27
23	A higher-order FDTD technique for the implementation of enhanced dispersionless perfectly matched layers combined with efficient absorbing boundary conditions. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 2736-2739.	2.1	26
24	A comparative study of the biological effects of various mobile phone and wireless LAN antennas. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 777-780.	2.1	26
25	An Unconditionally Stable Higher Order ADI-FDTD Technique for the Dispersionless Analysis of Generalized 3-D EMC Structures. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 1436-1439.	2.1	26
26	A Higher Order Nonstandard FDTD-PML Method for the Advanced Modeling of Complex EMC Problems in Generalized 3-D Curvilinear Coordinates. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2004, 46, 2-11.	2.2	26
27	Higher Order FDTD Schemes for Waveguide and Antenna Structures. <i>Synthesis Lectures on Computational Electromagnetics</i> , 2006, 1, 1-226.	0.2	25
28	Toward the Realization of a Programmable Metasurface Absorber Enabled by Custom Integrated Circuit Technology. <i>IEEE Access</i> , 2020, 8, 92986-92998.	4.2	24
29	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. <i>IEEE Transactions on Magnetics</i> , 1997, 33, 1460-1463.	2.1	21
30	A fully explicit Whitney element-time domain scheme with higher order vector finite elements for three-dimensional high frequency problems. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 3288-3291.	2.1	21
31	Robust technique for the polarizability matrix retrieval of bianisotropic scatterers via their reflection and transmission coefficients. <i>IET Microwaves, Antennas and Propagation</i> , 2014, 8, 1398-1407.	1.4	21
32	Joint Compressed Sensing and Manipulation of Wireless Emissions with Intelligent Surfaces. , 2019, , .		19
33	Wide-angle absorption of visible light from simple bilayers. <i>Applied Optics</i> , 2017, 56, 9779.	1.8	19
34	Numerical modeling of an indoor wireless environment for the performance evaluation of WLAN systems. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 839-842.	2.1	17
35	A Wideband ADI-FDTD Algorithm for the Design of Double Negative Metamaterial-Based Waveguides and Antenna Substrates. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 1329-1332.	2.1	16
36	A nonorthogonal higher-order wavelet-oriented FDTD technique for 3-D waveguide structures on generalized curvilinear grids. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 3264-3268.	2.1	15

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37	A deployable routing system for nanonetworks. , 2016, , .		15
38	The nonorthogonal finite integration technique applied to 2D- and 3D-eigenvalue problems. IEEE Transactions on Magnetics, 2000, 36, 897-901.	2.1	14
39	Tunable terahertz metamaterials by means of piezoelectric MEMS actuators. Europhysics Letters, 2014, 107, 58004.	2.0	14
40	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
41	On the Use of FDTD and Ray-Tracing Schemes in the Nanonetwork Environment. IEEE Communications Letters, 2014, 18, 1823-1826.	4.1	13
42	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
43	Precise Modeling of Magnetically Biased Graphene Through a Recursive Convolutional FDTD Method. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	13
44	Symmetry-controlled edge states in the type-II phase of Dirac photonic lattices. Nature Communications, 2020, 11, 2074.	12.8	13
45	Efficient Metafilm/Metasurface Characterization for Obliquely Incident TE Waves via Surface Susceptibility Models. IEEE Transactions on Magnetics, 2012, 48, 367-370.	2.1	12
46	A Loss-Controllable Absorbing Boundary Condition for Surface Plasmon Polaritons Propagating Onto Graphene. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	12
47	Connectivity and coverage in machine-type communications. , 2017, , .		12
48	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
49	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
50	Subcell dispersive finite-difference time-domain schemes for infinite graphene-based structures. IET Microwaves, Antennas and Propagation, 2012, 6, 377.	1.4	10
51	Hybrid unconditionally stable high-order nonstandard schemes with optimal error-controllable spectral resolution for complex microwave problems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2012, 25, 621-644.	1.9	10
52	Radio Environment Maps for 5G Cognitive Radio Network. , 2019, , .		10
53	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
54	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

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55	Systematic surface waves analysis at the interfaces of composite DNG/SNG media. Optics Express, 2009, 17, 8513.	3.4	9
56	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
57	DAMA: A data mining forecasting DBA scheme for XG-PONs. , 2016, , .		9
58	A Generalized Domain-Decomposition Stochastic FDTD Technique for Complex Nanomaterial and Graphene Structures. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9
59	FDTD Method for Wave Propagation in Havriliakâ€“Negami Media Based on Fractional Derivative Approximation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	9
60	3D Channel Modeling and Characterization for Hypersurface Empowered Indoor Environment at 60 GHz Millimeter-Wave Band. , 2019, , .		9
61	Zero reflection coefficient in discretized PML. IEEE Microwave and Wireless Components Letters, 2001, 11, 155-157.	3.2	8
62	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
63	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
64	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
65	A class of multi-band, polarization-insensitive, microwave metamaterial absorbers in EMC analysis. , 2012, , .		8
66	Programmable terahertz metamaterials through V-beam electrothermal devices. Applied Physics A: Materials Science and Processing, 2014, 117, 433-438.	2.3	8
67	Parallel LOD-FDTD Method With Error-Balancing Properties. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
68	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
69	Investigation of uncertainty in lightningâ€“produced EM fields with a polynomialâ€“chaos FDTD approach. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2238.	1.9	8
70	Modern EMC Analysis Techniques Volume II: Models and Applications. Synthesis Lectures on Computational Electromagnetics, 2008, 3, 1-238.	0.2	8
71	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
72	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

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73	Wideband numerical modelling and performance optimisation of arbitrarily-shaped anechoic chambers via an unconditionally stable time-domain technique. <i>Electrical Engineering</i> , 2005, 88, 55-81.	2.0	7
74	Consistent Modeling of Periodic Metasurfaces With Bianisotropic Scatterers for Oblique TE-Polarized Plane Wave Excitation. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 1769-1772.	2.1	7
75	Reconfigurable metamaterial components exploiting two-hot-arm electrothermal actuators. <i>Microsystem Technologies</i> , 2015, 21, 2097-2107.	2.0	7
76	The implications of parallel processing on h-p adaptive finite element analysis for electromagnetics. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 3284-3287.	2.1	6
77	An explicit weighted essentially nonoscillatory time-domain algorithm for 3-D EMC applications with arbitrary media interfaces. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 803-806.	2.1	6
78	Temporal characteristics of resonant surface polaritons in superlensing planar double-negative slabs: Development of analytical schemes and numerical models. <i>Physical Review E</i> , 2007, 76, 046606.	2.1	6
79	GPU-Accelerated Efficient Implementation of FDTD Methods With Optimum Time-Step Selection. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 477-480.	2.1	6
80	A curvilinear stochastic-FDTD algorithm for 3-D EMC problems with media uncertainties. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2015, 34, 1637-1651.	0.9	6
81	Powering nanonetworks by exploiting metamaterial-inspired wireless energy transfer. , 2015, , .		6
82	A 4-D Subgrid Scheme for the NS-FDTD Technique Using the CNS-FDTD Algorithm With the Shepard Method and a Gaussian Smoothing Filter. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	6
83	Modal analysis of graphene microtubes utilizing a two-dimensional vectorial finite element method. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	6
84	Distortion of surface plasmon polariton propagation on graphene due to chemical potential variation. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	6
85	Uncertainty Study of Periodic-Grating Wideband Filters With Sparse Polynomial-Chaos Expansions. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1499-1502.	2.5	6
86	Chaotic Jaya Approaches to Solving Electromagnetic Optimization Benchmark Problems. <i>Telecom</i> , 2021, 2, 222-231.	2.6	6
87	Higher order approaches of FDTD and TVFE methods for the accurate analysis of fractal antenna arrays. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 1230-1233.	2.1	5
88	Performance optimization of the PML absorber in lossy media via closed-form expressions of the reflection coefficient. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 1234-1237.	2.1	5
89	Modern EMC Analysis Techniques Volume I: Time-Domain Computational Schemes. <i>Synthesis Lectures on Computational Electromagnetics</i> , 2008, 3, 1-224.	0.2	5
90	Stencil-Optimized Time-Domain Algorithms for Compact Circular Patch Antennas With Anisotropic Metamaterial Substrates. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 1368-1371.	2.1	5

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91	Vehicle-to-vehicle communication system EMI characterization on automotive electronics. , 2010, , .		5
92	Unconditionally-stable time-domain approach for uncertainty assessment in transmission lines. , 2016, , .		5
93	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
94	Performance analysis of waveguide-mode resonant optical filters with stochastic design parameters. Applied Optics, 2018, 57, 3106.	1.8	5
95	A Stochastic FDTD Method for Rectangular Objects with Geometric Uncertainties. , 2019, , .		5
96	Optimal Design of Aperiodic Reconfigurable Antenna Array Suitable for Broadcasting Applications. Electronics (Switzerland), 2020, 9, 818.	3.1	5
97	Multiobjective Ant Lion Approaches Applied to Electromagnetic Device Optimization. Technologies, 2021, 9, 35.	5.1	5
98	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
99	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
100	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
101	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
102	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
103	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
104	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
105	Optimized wireless power transfer schemes with metamaterial-based resonators. , 2017, , .		4
106	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
107	A Consistent Scheme for the Precise FDTD Modeling of the Graphene Interband Contribution. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	4
108	Sierpinski double-gasket antenna investigated with 3-D FDTD conformal technique. Electronics Letters, 2002, 38, 107.	1.0	3

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109	A higher-order unsplit-field perfectly matched layer for the reflectionless truncation of 3-D spherical FDTD lattices. <i>Electrical Engineering</i> , 2002, 84, 173-187.	2.0	3
110	Rigorous time-domain graphene representation as a surface boundary condition. , 2014, , .		3
111	Wireless energy transfer by means of metamaterial components. , 2015, , .		3
112	Development of optimized operators based on spherical-harmonic expansions for 3D FDTD schemes. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2016, 51, S57-S66.	0.6	3
113	Metamaterial-based wireless power transfer through interdigitated SRRs. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2016, 35, 1338-1345.	0.9	3
114	Efficient Integration of High-Order Stencils Into the ADI-FDTD Method. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	2.1	3
115	Wide-Angle Elimination of TF/SF-Generated Spurious Waves in the Nonstandard FDTD Technique. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-4.	2.1	3
116	Development of a Transmission Line Model for the Thickness Prediction of Thin Films via the Infrared Interference Method. <i>Technologies</i> , 2018, 6, 122.	5.1	3
117	Efficient stochastic EM studies via dimensionality reduction of polynomial-chaos expansions. , 2018, , .		3
118	Intrusive polynomial-chaos approach for stochastic problems with axial symmetry. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 782-788.	1.4	3
119	Genetic Optimization With Mixed-Order Prism Macroelements for 3-D Metamaterial Multilayered Structures. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	2.1	3
120	A Stochastic Finite-Difference Time-Domain (FDTD) Method for Assessing Material and Geometric Uncertainties in Rectangular Objects. <i>Technologies</i> , 2020, 8, 12.	5.1	3
121	Accurate FDTD wavelet-Galerkin representation of field singularities near conductive wedges. <i>IET Microwaves Antennas and Propagation</i> , 2001, 148, 163.	1.2	2
122	Unified higher-order curvilinear FDTD-PMLs for 3-D electromagnetics and advective acoustics. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2002, 21, 451-471.	0.9	2
123	A 3D multimodal FDTD algorithm for electromagnetic and acoustic propagation in curved waveguides and bent ducts of varying cross-section. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2004, 23, 613-624.	0.9	2
124	Development of accuracy-enhanced time-domain schemes for bi-isotropic media and chiral metamaterials. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2009, 28, 7-21.	0.9	2
125	Signal Integrity and EMC/EMI Measurement Analysis of RF MEMS Devices via a Combined FETD/Higher Order FVTD Technique. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 1404-1407.	2.1	2
126	Consistent analysis and rigorous characterization of infinite graphene layers via a subcell frequency-dependent FDTD technique. , 2011, , .		2

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127	RCS analysis of finite graphene sheets through an enhanced frequency-dependent FDTD method. , 2012, , .		2
128	Wedge-shaped dual planar log-periodic antenna with enhanced directivity for WiMAX applications. , 2012, , .		2
129	GPU-based three-dimensional calculation of lightning-generated electromagnetic fields. , 2014, , .		2
130	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
131	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
132	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
133	Efficient suppression of artificial reflections in the TF/SF scheme for the nonstandard FDTD method. , 2016, , .		2
134	Wireless power transfer via negative permittivity metamaterials as resonating elements. , 2017, , .		2
135	Efficient Uncertainty Assessment in EM Problems via Dimensionality Reduction of Polynomial-Chaos Expansions. Technologies, 2019, 7, 37.	5.1	2
136	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
137	Modeling the Third-Order Electrodynamics Response of Graphene via an Efficient Finite-Difference Time-Domain Scheme. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	2
138	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
139	Wavefront engineering with optimally loaded absorbing metamirrors. Physical Review B, 2021, 103, .	3.2	2
140	Combined FVTD/PSTD Schemes with Enhanced Spectral Accuracy for the Design of Large-Scale EMC Applications. Advanced Electromagnetics, 2012, 1, 41.	1.0	2
141	Antenna Array Beamforming Based on Deep Learning Neural Network Architectures. , 2022, , .		2
142	Analysis of multipoint waveguide structures by a higher-order FDTD methodology based on non-orthogonal curvilinear grids. , 0, , .		1
143	Corrections to "Surface Susceptibility Bianisotropic Matrix Model for Periodic Metasurfaces of Uniaxially Mono-Anisotropic Scatterers Under Oblique TE-Wave Incidence" [Dec 12 5753-5767]. IEEE Transactions on Antennas and Propagation, 2013, 61, 4405-4405.	5.1	1
144	Graphene-based patch nano-antennas with optimal width-adjustable radiation characteristics. , 2013, , .		1

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145	Substrate controllable transverse magnetic surface waves onto a graphene layer at far-infrared frequencies. , 2013, , .		1
146	Substrate controllable transverse magnetic surface waves onto a graphene layer at far-infrared frequencies. , 2013, , .		1
147	Reconfigurable Terahertz Metamaterials through Piezoelectric Microgrippers. , 2014, , .		1
148	Surface plasmon polariton waves onto graphene's surface over an anisotropic metamaterial substrate. Proceedings of SPIE, 2014, , .	0.8	1
149	Miniaturization of metamaterial electrical resonators at the terahertz spectrum. Proceedings of SPIE, 2014, , .	0.8	1
150	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
151	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
152	Efficiency enhancement of metamaterial-inspired wireless energy transfer topologies. , 2016, , .		1
153	Polynomial-chaos time-domain method for uncertainty analysis of axially-symmetric structures. , 2016, , .		1
154	Effective parameter calculation of 3D bianisotropic scatterer arrays through extracted polarizabilities. , 2016, , .		1
155	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
156	Rigorous analysis of 3-D statistically-varying EMC problems via a generalized stochastic FDTD method. , 2016, , .		1
157	Construction of 3D FDTD schemes with frequency-dependent operator coefficients. , 2016, , .		1
158	Metamaterial-based 3D Luneburg lens antenna design for microwave frequencies. , 2016, , .		1
159	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
160	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
161	Consistent Integral Equation Modeling of Cloaking Planar Microstrip Antennas. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	1
162	Circular and square SRR exploitation as a means for wireless power transfer. , 2017, , .		1

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163	A stochastic FDTD approach for assessing random media uncertainties in polar coordinates. , 2017, , .		1
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