Weng Cho Chew

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

203 papers	5,960 citations	37 h-index	73 g-index
290 ext. papers	7,609 ext. citations	3.2 avg, IF	5.92 L-index

#	Paper	IF	Citations
203	A 3D perfectly matched medium from modified maxwell's equations with stretched coordinates. *Microwave and Optical Technology Letters*, **1994**, 7, 599-604	1.2	1061
202	Multilevel fast multipole algorithm for electromagnetic scattering by large complex objects. *IEEE Transactions on Antennas and Propagation*, **1997**, 45, 1488-1493	4.9	908
201	Integral equation solution of Maxwell's equations from zero frequency to microwave frequencies. *IEEE Transactions on Antennas and Propagation*, **2000**, 48, 1635-1645	4.9	274
200	Fast solution methods in electromagnetics. *IEEE Transactions on Antennas and Propagation*, **1997**, 45, 533-543	4.9	176
199	Numerical simulation methods for rough surface scattering. *Waves in Random and Complex Media*, **2001**, 11, R1-R30		165
198	Fast Full-Wave Surface Integral Equation Solver for Multiscale Structure Modeling. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 3594-3601	4.9	132
197	Finite-difference time-domain simulation of ground penetrating radar on dispersive, inhomogeneous, and conductive soils. *IEEE Transactions on Geoscience and Remote Sensing*, **1998**, 36, 1928-1937	8.1	115
196	Inverse scattering of two-dimensional dielectric objects buried in a lossy earth using the distorted Born iterative method. *IEEE Transactions on Geoscience and Remote Sensing*, **2001**, 39, 339-346	8.1	115
195	Wave-Field Interaction With Complex Structures Using Equivalence Principle Algorithm. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 130-138	4.9	103
194	10 million unknowns: is it that big? [computational electromagnetics]. *IEEE Antennas and Propagation Magazine*, **2003**, 45, 43-58	1.7	97
193	Analysis and performance of a distributed memory multilevel fast multipole algorithm. *IEEE Transactions on Antennas and Propagation*, **2005**, 53, 2719-2727	4.9	77
192	Fast evaluation of Sommerfeld integrals for EM scattering and radiation by three-dimensional buried objects. *IEEE Transactions on Geoscience and Remote Sensing*, **1999**, 37, 887-900	8.1	73
191	Integral Equation Methods for Electromagnetic and Elastic Waves. *Synthesis Lectures on Computational Electromagnetics*, **2008**, 3, 1-241		72
190	Super-hyper singularity treatment for solving 3D electric field integral equations. *Microwave and Optical Technology Letters*, **2007**, 49, 1383-1388	1.2	71
189	A combined steepest descent-fast multipole algorithm for the fast analysis of three-dimensional scattering by rough surfaces. *IEEE Transactions on Geoscience and Remote Sensing*, **1998**, 36, 738-748	8.1	67
188	VECTOR POTENTIAL ELECTROMAGNETICS WITH GENERALIZED GAUGE FOR INHOMOGENEOUS MEDIA: FORMULATION (Invited Paper). *Progress in Electromagnetics Research*, **2014**, 149, 69-84	3.8	66
187	A FAFFA-MLFMA algorithm for electromagnetic scattering. *IEEE Transactions on Antennas and Propagation*, **2002**, 50, 1641-1649	4.9	66

186	Experimental verification of super resolution in nonlinear inverse scattering. *Applied Physics Letters*, **1998**, 72, 3080-3082	3.4	66
185	Finite-difference computation of transient electromagnetic waves for cylindrical geometries in complex media. *IEEE Transactions on Geoscience and Remote Sensing*, **2000**, 38, 1530-1543	8.1	65
184	A quantitative study on the low frequency breakdown of EFIE. *Microwave and Optical Technology Letters*, **2008**, 50, 1159-1162	1.2	56
183	Thin-stratified medium fast-multipole algorithm for solving microstrip structures. *IEEE Transactions on Microwave Theory and Techniques*, **1998**, 46, 395-403	4.1	54
182	Novel diffraction tomographic algorithm for imaging two-dimensional targets buried under a lossy Earth. *IEEE Transactions on Geoscience and Remote Sensing*, **2000**, 38, 2033-2041	8.1	54
181	A New Green's Function Formulation for Modeling Homogeneous Objects in Layered Medium. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 4766-4776	4.9	50
180	Response of a Point Source in a Multicylindrcally Layered Medium. *IEEE Transactions on Geoscience and Remote Sensing*, **1987**, GE-25, 850-858	8.1	49
179	A domain decomposition scheme based on equivalence theorem. *Microwave and Optical Technology Letters*, **2006**, 48, 1853-1857	1.2	47
178	Calderon Multiplicative Preconditioned EFIE With Perturbation Method. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 247-255	4.9	46
177	An augmented electric field integral equation for high-speed interconnect analysis. *Microwave and Optical Technology Letters*, **2008**, 50, 2658-2662	1.2	46
176	A surface integral equation formulation for low-frequency scattering from a composite object. *IEEE Transactions on Antennas and Propagation*, **2003**, 51, 2837-2844	4.9	45
175	A novel grid-robust higher order vector basis function for the method of moments. *IEEE Transactions on Antennas and Propagation*, **2001**, 49, 908-915	4.9	45
174	Analysis of low frequency scattering from penetrable scatterers. *IEEE Transactions on Geoscience and Remote Sensing*, **2001**, 39, 726-735	8.1	45
173	Error analysis for the truncation of multipole expansion of vector Green's functions [EM scattering]. *IEEE Microwave and Wireless Components Letters*, **2001**, 11, 311-313	2.6	43
172	Local shape function combined with genetic algorithm applied to inverse scattering for strips. *Microwave and Optical Technology Letters*, **1997**, 16, 337-341	1.2	41
171	Thin dielectric sheet simulation by surface integral equation using modified RWG and pulse bases. *IEEE Transactions on Antennas and Propagation*, **2006**, 54, 1927-1934	4.9	41
170	Three-dimensional multilevel fast multipole algorithm from static to electrodynamic. *Microwave and Optical Technology Letters*, **2000**, 26, 43-48	1.2	41
169	A higher order parallelized multilevel fast multipole algorithm for 3-D scattering. *IEEE Transactions on Antennas and Propagation*, **2001**, 49, 1069-1078	4.9	41

168	A general design rule to manipulate photocarrier transport path in solar cells and its realization by the plasmonic-electrical effect. *Scientific Reports*, **2015**, 5, 8525	4.9	38
167	Combined Field Integral Equation-Based Theory of Characteristic Mode. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 3973-3981	4.9	37
166	Error analysis of the moment method. *IEEE Antennas and Propagation Magazine*, **2004**, 46, 38-53	1.7	36
165	Inverse scattering of Hz waves using local shape-function imaging: A T-matrix formulation. *International Journal of Imaging Systems and Technology*, **1994**, 5, 22-27	2.5	35
164	Study on spontaneous emission in complex multilayered plasmonic system via surface integral equation approach with layered medium Green's function. *Optics Express*, **2012**, 20, 20210-21	3.3	33
163	Error control of the translation operator in 3D MLFMA. *Microwave and Optical Technology Letters*, **2003**, 37, 184-188	1.2	32
162	A higher-order Nystro/spl uml/m scheme for electromagnetic scattering by arbitrarily shaped surfaces. *IEEE Antennas and Wireless Propagation Letters*, **2005**, 4, 277-280	3.8	30
161	Response of a point source embedded in a layered medium. *IEEE Antennas and Wireless Propagation Letters*, **2003**, 2, 254-258	3.8	29
160	Accuracy of the method of moments for scattering by a cylinder. *IEEE Transactions on Microwave Theory and Techniques*, **2000**, 48, 1652-1660	4.1	29
159	Image reconstruction from TE scattering data using equation of strong permittivity fluctuation. *IEEE Transactions on Antennas and Propagation*, **2000**, 48, 860-867	4.9	29
158	Large-Scale Characteristic Mode Analysis With Fast Multipole Algorithms. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 2608-2616	4.9	26
157	Compact Nonlinear Yagi-Uda Nanoantennas. *Scientific Reports*, **2016**, 6, 18872	4.9	26
156	An Augmented Electric Field Integral Equation for Layered Medium Green's Function. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 960-968	4.9	25
155	Efficient time-domain and frequency-domain finite-element solution of Maxwell's equations using spectral Lanczos decomposition method. *IEEE Transactions on Microwave Theory and Techniques*, **1998**, 46, 1141-1149	4.1	25
154	Combining PML and ABC for the finite-element analysis of scattering problems. *Microwave and Optical Technology Letters*, **1996**, 12, 192-197	1.2	24
153	A Potential-Based Integral Equation Method for Low-Frequency Electromagnetic Problems. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 1413-1426	4.9	23
152	An Enhanced Augmented Electric-Field Integral Equation Formulation for Dielectric Objects. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 2339-2347	4.9	23
151	Analyzing low-frequency electromagnetic scattering from a composite object. *IEEE Transactions on Geoscience and Remote Sensing*, **2002**, 40, 426-433	8.1	23

150	Accurate model of arbitrary wire antennas in free space, above or inside ground. *IEEE Transactions on Antennas and Propagation*, **2000**, 48, 482-493	4.9	21
149	Generalized Modal Expansion and Reduced Modal Representation of 3-D Electromagnetic Fields. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 783-793	4.9	20
148	A Novel Meshless Scheme for Solving Surface Integral Equations With Flat Integral Domains. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 3285-3293	4.9	20
147	Systematic study of spontaneous emission in a two-dimensional arbitrary inhomogeneous environment. *Physical Review A*, **2011**, 83,	2.6	20
146	Finite-Difference Time-Domain Simulation of the Maxwell–Schrödinger System. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2016**, 1, 40-47	1.5	20
145	A hybrid SBR/MoM technique for analysis of scattering from small protrusions on a large conducting body. *IEEE Transactions on Antennas and Propagation*, **1998**, 46, 1349-1357	4.9	19
144	A spectral Lanczos decomposition method for solving 3-D low-frequency electromagnetic diffusion by the finite-element method. *IEEE Transactions on Antennas and Propagation*, **1999**, 47, 242-248	4.9	18
143	Efficient evaluation of Casimir force in arbitrary three-dimensional geometries by integral equation methods. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2010**, 374, 2517-2520	2.3	17
142	Interpolation of translation matrix in MLFMA. *Microwave and Optical Technology Letters*, **2001**, 30, 109-114	1.2	17
141	Accurate analysis of wire structures from very-low frequency to microwave frequency. *IEEE Transactions on Antennas and Propagation*, **2002**, 50, 301-307	4.9	15
140	Dissipative Quantum Electromagnetics. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2018**, 3, 198-213	1.5	15
139	An Integral Equation Modeling of Lossy Conductors With the Enhanced Augmented Electric Field Integral Equation. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 4181-4190	4.9	14
138	A Mixed-Form Thin-Stratified Medium Fast-Multipole Algorithm for Both Low and Mid-Frequency Problems. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 2341-2349	4.9	14
137	A robust surface-integral-equation formulation for conductive media. *Microwave and Optical Technology Letters*, **2005**, 46, 109-114	1.2	14
136	MLFMA for solving integral equations of 2-D electromagnetic problems from static to electrodynamic. *Microwave and Optical Technology Letters*, **1999**, 20, 306-311	1.2	14
135	Overview of Large-Scale Computing: The Past, the Present, and the Future. *Proceedings of the IEEE*, **2013**, 101, 227-241	14.3	13
134	The roles of metallic rectangular-grating and planar anodes in the photocarrier generation and transport of organic solar cells. *Applied Physics Letters*, **2012**, 101, 223302	3.4	13
133	Large-scale computation for electrically small structures using surface-integral equation method. *Microwave and Optical Technology Letters*, **2005**, 47, 525-530	1.2	13

132	Fast real-time convolution algorithm for microwave multiport networks with nonlinear terminations. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2005**, 52, 370-375		13
131	Nepal□n algorithm for solving the volume integral equation. *Microwave and Optical Technology Letters*, **1993**, 6, 185-188	1.2	13
130	Finite-Width Feed and Load Models. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 281-289	4.9	12
129	A multi-scale modeling of junctionless field-effect transistors. *Applied Physics Letters*, **2013**, 103, 062109	3.4	12
128	A Novel Implementation of Discrete Complex Image Method for Layered Medium Green's Function. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 419-422	3.8	12
127	A near-resonance decoupling approach (NRDA) for scattering solution of near-resonant structures. *IEEE Transactions on Antennas and Propagation*, **1997**, 45, 1857-1862	4.9	12
126	Applying matrix rotation to the three-dimensional low-frequency multilevel fast multipole algorithm. *Microwave and Optical Technology Letters*, **2000**, 26, 105-110	1.2	12
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123	A Calder□ Preconditioner for the Electric Field Integral Equation With Layered Medium Green's Function. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 2022-2030	4.9	11
122	Multilevel Fast Multipole Acceleration in the Nystr□m Discretization of Surface Electromagnetic Integral Equations for Composite Objects. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 3411-3416	4.9	11
121	A frequency extrapolation algorithm for FISC. *IEEE Transactions on Antennas and Propagation*, **1997**, 45, 1891-1893	4.9	11
120	Frequency-Independent Scattering From a Flat Strip With ${rm TE}_{z}$-Polarized Fields. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 1008-1016	4.9	11
119	A frequency-domain formulation of the Fr□het derivative to exploit the inherent parallelism of the distorted Born iterative method. *Waves in Random and Complex Media*, **2006**, 16, 495-508	1.9	11
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115	Toward a more robust and accurate CEM fast Integral equation solver for IC applications. *IEEE Transactions on Advanced Packaging*, **2005**, 28, 449-464		10

114	A multilevel fast multipole algorithm for electrically small composite structures. *Microwave and Optical Technology Letters*, **2004**, 43, 202-207	1.2	10
113	A Low-Frequency Stable Broadband Multilevel Fast Multipole Algorithm Using Plane Wave Multipole Hybridization. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 6137-6145	4.9	9
112	Differential-Forms-Motivated Discretizations of Electromagnetic Differential and Integral Equations. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 1223-1226	3.8	9
111	A novel broadband patch antenna for universal UHF RFID tags. *Microwave and Optical Technology Letters*, **2010**, 52, 2653-2657	1.2	9
110	On Preconditioning and the Eigensystems of Electromagnetic Radiation Problems. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 2413-2420	4.9	9
109	Fast real-time convolution algorithm for transients of nonlinearly-terminated microwave multiport circuits. *Microwave and Optical Technology Letters*, **2003**, 39, 280-282	1.2	9
108	Numerical modeling of an enhanced very early time electromagnetic (VETEM) prototype system. *IEEE Antennas and Propagation Magazine*, **2000**, 42, 17-27	1.7	9
107	Development of Stable A-Phi Time-Domain Integral Equations for Multiscale Electromagnetics. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2018**, 3, 255-265	1.5	9
106	The Contour Deformation Method for Calculating the High-Frequency Scattered Field by the Fock Current on the Surface of the 3-D Convex Cylinder. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 2180-2190	4.9	8
105	Scalable electromagnetic scattering computations		8
104	FDTD modeling and analysis of a broadband antenna suitable for oil-field imaging while drilling. *IEEE Transactions on Geoscience and Remote Sensing*, **2002**, 40, 434-442	8.1	8
103	Regulated kernel for the electric field integral equation		8
102	Detection of buried targets using a new enhanced very early time electromagnetic (VETEM) prototype system. *IEEE Transactions on Geoscience and Remote Sensing*, **2001**, 39, 2702-2712	8.1	8
101	Recursive mode matching method for multiple waveguide junction modeling. *IEEE Transactions on Microwave Theory and Techniques*, **1996**, 44, 87-92	4.1	8
100	Single-Source Equivalence Principle Algorithm for the Analysis of Complex Structures. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 1255-1258	3.8	7
99	Methods for fast evaluation of self-energy matrices in tight-binding modeling of electron transport systems. *Journal of Applied Physics*, **2012**, 112, 013711	2.5	7
98	A fast polynomial representation for the translation operators of an MLFMA. *Microwave and Optical Technology Letters*, **2001**, 28, 298-303	1.2	7
97	Convergence of moment-method solutions of the electric field integral equation for a 2-D open cavity. *Microwave and Optical Technology Letters*, **1999**, 23, 212-218	1.2	7

96	Dressed Atom Fields and Dressed States in Waveguide Quantum Electrodynamics. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2017**, 2, 58-65	1.5	6
95	Augmented Electric-Field Integral Equation for Inhomogeneous Media. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 2967-2970	3.8	6
94	CASIMIR FORCE FOR ARBITRARY OBJECTS USING THE ARGUMENT PRINCIPLE AND BOUNDARY ELEMENT METHODS. *Progress in Electromagnetics Research*, **2013**, 142, 615-624	3.8	6
93	Model Order Reduction for Quantum Transport Simulation of Band-To-Band Tunneling Devices. *IEEE Transactions on Electron Devices*, **2014**, 61, 561-568	2.9	6
92	An efficient method for highly oscillatory physical optics integrals **2012**,		6
91	Using tap basis to implement the equivalence principle algorithm for domain decomposition in integral equations. *Microwave and Optical Technology Letters*, **2006**, 48, 2218-2222	1.2	6
90	Numerical analysis of local interpolation error for 2D-MLFMA. *Microwave and Optical Technology Letters*, **2003**, 36, 8-12	1.2	6
89	Error analysis of the fast inhomogeneous plane wave algorithm for 2D free-space cases. *Microwave and Optical Technology Letters*, **2003**, 38, 300-304	1.2	6
88	Cancellations of surface loop basis functions		6
87	Full-wave analysis of complicated transmission-line circuits using wire models. *IEEE Transactions on Antennas and Propagation*, **2002**, 50, 1350-1360	4.9	6
86	A fast algorithm for the analysis of radiation and scattering from microstrip arrays on finite substrates. *Microwave and Optical Technology Letters*, **1999**, 23, 306-310	1.2	6
85	Quantum information preserving computational electromagnetics. *Physical Review A*, **2020**, 102,	2.6	6
84	Characteristic Mode and Reduced Order Modeling at Low Frequencies. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2017**, 7, 669-677	1.7	5
83	A Frequency-Independent Method for Computing the Physical Optics-Based Electromagnetic Fields Scattered From a Hyperbolic Surface. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 1546-1552	4.9	5
82	Loop-Tree Free Augmented Equivalence Principle Algorithm for Low-Frequency Problems. *Microwave and Optical Technology Letters*, **2013**, 55, 2475-2479	1.2	5
81	An Efficiently Preconditioned Eigenanalysis of Inhomogeneously Loaded Rectangular Cavities. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 58-61	3.8	5
80	Fast inhomogeneous plane wave algorithm for 3D buried object problems		5
79	Numerical modeling of dielectric-resonator antennas in a complex environment using the method of moments. *IEEE Transactions on Antennas and Propagation*, **2002**, 50, 79-82	4.9	5

78	On the parallelization of electrodynamic multilevel fast multipole method on distributed memory computers		5
77	Hamilton Equations, Commutator, and Energy Conservation. *Quantum Reports*, **2019**, 1, 295-303	2.1	5
76	Quantum Maxwell's Equations Made Simple: Employing Scalar and Vector Potential Formulation. *IEEE Antennas and Propagation Magazine*, **2021**, 63, 14-26	1.7	5
75	Hybridization numerical Greenes function of anisotropic inhomogeneous media with surface integral equation. *Microwave and Optical Technology Letters*, **2017**, 59, 1781-1786	1.2	4
74	Quantum Electromagnetic Finite-Difference Time-Domain Solver. *Quantum Reports*, **2020**, 2, 253-265	2.1	4
73	Acceleration of Perturbation-Based Electric Field Integral Equations Using Fast Fourier Transform. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 4559-4564	4.9	4
72	A Fast and Massively-Parallel Inverse Solver for Multiple-Scattering Tomographic Image Reconstruction **2018**,		4
71	Enhanced A-EFIE with Calderón multiplicative preconditioner **2013**,		4
70	Fast solution of low-frequency complex problems over a frequency band using enhanced A-EFIE and FMM. *Microwave and Optical Technology Letters*, **2014**, 56, 2153-2158	1.2	4
69	Solving array structures using single-source equivalence principle algorithm **2013**,		4
68	E-Field, H-Field, and Combined-Field Based Nyström Method Analysis for Electromagnetic Scattering by Complex-Material Bodies. *IEEE Transactions on Electromagnetic Compatibility*, **2010**, 52, 620-628	2	4
67	Complementary perfectly matched layers to reduce reflection errors. *Microwave and Optical Technology Letters*, **1997**, 14, 284-287	1.2	4
66	Packaging modeling using fast broadband surface integral equation method **2008**,		4
65	Unified boundary integral equation for the scattering of elastic and acoustic waves: solution by the method of moments. *Waves in Random and Complex Media*, **2008**, 18, 303-324	1.9	4
64	A new Sommerfeld-Watson transformation in 3-D. *IEEE Antennas and Wireless Propagation Letters*, **2004**, 3, 75-78	3.8	4
63	Formal solution to the electromagnetic scattering by buried dielectric and metallic spheres. *Radio Science*, **2004**, 39, n/a-n/a	1.4	4
62	Stability analysis and discretization of A-time domain integral equations for multiscale electromagnetics. *Journal of Computational Physics*, **2020**, 408, 109102	4.1	4
61	RADIATION GAUGE POTENTIAL-BASED TIME DOMAIN INTEGRAL EQUATIONS FOR PENETRABLE REGIONS. *Progress in Electromagnetics Research*, **2020**, 168, 73-86	3.8	4

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59	A Groundwave Propagation Model Using a Fast Far-Field Approximation. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1369-1372	3.8	3
58	Reduced-Order Model With Equivalence Surface for Scattering Problems. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 308-312	3.8	3
57	Second-harmonic generation in metal nanoparticles modeling by surface integral equation **2014**,		3
56	Reducing computational workload of electromagnetic scattered fields from electrically large quadratic surface at high frequency **2013**,		3
55	Numerical analysis of electrically small structures embedded in a layered medium. *Microwave and Optical Technology Letters*, **2009**, 51, 1304-1308	1.2	3
54	Fast algorithm for scattering from planar arrays of conducting patches **1998**, 8, 155-157		3
53	CLASSICAL AND QUANTUM ELECTROMAGNETIC INTERFERENCES: WHAT IS THE DIFFERENCE?. *Progress in Electromagnetics Research*, **2020**, 168, 1-13	3.8	3
52	Large inverse-scattering solutions with DBIM on GPU-enabled supercomputers **2017**,		2
51	Efficient Implicit Mode Matching Method for Complicated Periodic Waveguiding Structures. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 2651-2654	3.8	2
50	A study for sound wave scattering by corrugated ground with complex trench structures. *Waves in Random and Complex Media*, **2009**, 19, 392-408	1.9	2
49	A pancake-shaped nano-aggregate for focusing surface plasmons. *Journal of Applied Physics*, **2012**, 111, 034308	2.5	2
48	Quasi-static analysis of fringe capacitances for horizontal and vertical annular frills. *Microwave and Optical Technology Letters*, **2002**, 33, 61-64	1.2	2
47	Time-domain ultra-wideband microwave imaging radar system		2
46	An efficient iterative solver for the modes in a dielectric waveguide		2
45	Impedance calculation of complex surfaces-wire structures with multilevel fast multipole algorithm and variational formulation		2
44	The application of far-field approximation to accelerate the fast multipole method		2
43	A recursive aggregation method for the computation of electromagnetic scattering by randomly distributed particles. *Microwave and Optical Technology Letters*, **1993**, 6, 774-777	1.2	2

42	Sum-frequency and second-harmonic generation from plasmonic nonlinear nanoantennas. *URSI Radio Science Bulletin*, **2017**, 2017, 43-49	0.1	2
41	Second-harmonic generation of structured light by transition-metal dichalcogenide metasurfaces. *Physical Review A*, **2020**, 102,	2.6	2
40	Polynomial Finite-Size Shape Functions for Electromagnetic Particle-in-Cell Algorithms Based on Unstructured Meshes. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2019**, 4, 317-328	1.5	2
39	Potential-Based Time Domain Integral Equations Free From Interior Resonances. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2021**, 6, 81-91	1.5	2
38	Macroscopic Circuit Quantum Electrodynamics: A New Look Toward Developing Full-Wave Numerical Models. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2021**, 1-1	1.5	2
37	Broadband Spectral Numerical Green's Function for Electromagnetic Analysis of Inhomogeneous Objects. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 1063-1067	3.8	1
36	On computational complexity of the multilevel fast multipole algorithm in various dimensions **2016** ,		1
35	A Novel Efficient Numerical Solution of Poisson's Equation for Arbitrary Shapes in Two Dimensions. *Communications in Computational Physics*, **2016**, 20, 1381-1404	2.4	1
34	Plots of modal field distribution in circular dielectric waveguide. *Microwave and Optical Technology Letters*, **2015**, 57, 2599-2601	1.2	1
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32	Coupled Integral Equations for Microwave Induced Elastic Wave in Elastic Media. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 2309-2317	4.9	1
31	Finite-width gap excitation and impedance models **2011**,		1
30	Solving some surface integral equations by using MoM with curved triangular patches		1
29	Surface impedance design with ground corrugation for mitigation of large-calibre gun blast noise. *Waves in Random and Complex Media*, **2008**, 18, 461-477	1.9	1
28	Super resolution phenomenon in the detection of buried objects		1
27	The unstructured support operator method and its application in waveguide problems. *Microwave and Optical Technology Letters*, **2005**, 46, 495-500	1.2	1
26	Error analysis of scattering amplitudes and RCS		1
25	A new approach for controlling truncation error of the multipole expansion		1

24	Fast inhomogeneous plane wave algorithm for multi-layered medium problems		1
23	Three dimensional multilevel fast multipole algorithm at very low frequencies		1
22	Correction to: "Novel diffraction tomographic algorithm for imaging two-dimensional targets buried under a lossy earth". *IEEE Transactions on Geoscience and Remote Sensing*, **2001**, 39, 461	8.1	1
21	Convergence improvement for iterative solutions of the electric fields integral equation at very low frequencies		1
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