

VakÃ¼r B ErtÃ¼rk

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Error Analysis of MLFMA With Closed-Form Expressions. IEEE Transactions on Antennas and Propagation, 2021, 69, 6618-6623.	5.1	4
2	Broadband Analysis of Multiscale Electromagnetic Problems: Novel Incomplete-Leaf MLFMA for Potential Integral Equations. IEEE Transactions on Antennas and Propagation, 2021, , 1-1.	5.1	3
3	An Integral-Equation-Based Method for Efficient and Accurate Solutions of Scattering Problems with Highly Nonuniform Discretizations. , 2021, , .		0
4	Fast Solutions of Multiscale Electromagnetic Problems Using Potential Integral Equations. , 2020, , .		3
5	Broadband Solutions of Potential Integral Equations With NSPWMLFMA. IEEE Transactions on Antennas and Propagation, 2019, 67, 4307-4312.	5.1	6
6	A Wireless Metamaterial-Inspired Passive Rotation Sensor With Submilliradian Resolution. IEEE Sensors Journal, 2018, 18, 4482-4490.	4.7	22
7	Error Control of MLFMA within a Multiple- Precision Arithmetic Framework. , 2018, , .		0
8	Solution of Potential Integral Equations with NSPWMLFMA. , 2018, , .		5
9	Wireless Monitoring of a Structural Beam to be Used for Post-Earthquake Damage Assessment. , 2018, , .		1
10	Error Control of Multiple-Precision MLFMA. IEEE Transactions on Antennas and Propagation, 2018, 66, 5651-5656.	5.1	11
11	An Equivalent Circuit Model for Nested Split-Ring Resonators. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3733-3743.	4.6	11
12	An electromagnetic sensing system incorporating multiple probes and single antenna for wireless structural health monitoring. , 2017, , .		0
13	Incomplete-Leaf Multilevel Fast Multipole Algorithm for Multiscale Penetrable Objects Formulated With Volume Integral Equations. IEEE Transactions on Antennas and Propagation, 2017, 65, 4914-4918.	5.1	8
14	A Wireless Passive Sensing System for Displacement/Strain Measurement in Reinforced Concrete Members. Sensors, 2016, 16, 496.	3.8	32
15	Multi-Point Single-Antenna Sensing Enabled by Wireless Nested Split-Ring Resonator Sensors. IEEE Sensors Journal, 2016, 16, 7744-7752.	4.7	8
16	A broadband multilevel fast multipole algorithm with incomplete-leaf tree structures for multiscale electromagnetic problems. , 2016, , .		0
17	A Novel Broadband Multilevel Fast Multipole Algorithm With Incomplete-Leaf Tree Structures for Multiscale Electromagnetic Problems. IEEE Transactions on Antennas and Propagation, 2016, 64, 2445-2456.	5.1	19
18	Analysis of Slotted Sectoral Waveguide Arrays With Multilayered Radomes. IEEE Transactions on Antennas and Propagation, 2016, 64, 800-805.	5.1	6

#	ARTICLE	IF	CITATIONS
19	A Novel Approach for the Efficient Computation of 1-D and 2-D Summations. IEEE Transactions on Antennas and Propagation, 2016, 64, 1014-1022.	5.1	2
20	Broadband multilevel fast multipole algorithm for large-scale problems with nonuniform discretizations. , 2016, , .		0
21	Wireless Sensing in Complex Electromagnetic Media: Construction Materials and Structural Monitoring. IEEE Sensors Journal, 2015, 15, 5545-5554.	4.7	18
22	RF displacement and strain sensing system for wireless structural health monitoring. , 2015, , .		0
23	Analysis of slotted sectoral waveguide array antennas with multilayer radomes and nonzero metal thickness. , 2015, , .		0
24	SIW _ε -based interdigital bandpass filter with harmonic suppression. Microwave and Optical Technology Letters, 2015, 57, 66-69.	1.4	11
25	Wireless Measurement of Elastic and Plastic Deformation by a Metamaterial-Based Sensor. Sensors, 2014, 14, 19609-19621.	3.8	23
26	Design and analysis of slotted sectoral waveguide array antennas embedded in cylindrically stratified media. , 2014, , .		1
27	Novel SIW based interdigital bandpass filter with harmonic suppression. , 2014, , .		5
28	Novel optical antenna designs of comb shaped split ring architecture for NIR and MIR enhanced field localization. , 2014, , .		0
29	Wireless Displacement Sensing Enabled by Metamaterial Probes for Remote Structural Health Monitoring. Sensors, 2014, 14, 1691-1704.	3.8	45
30	Analysis of Input Impedance and Mutual Coupling of Microstrip Antennas on Multilayered Circular Cylinders Using Closed-Form Green's Function Representations. IEEE Transactions on Antennas and Propagation, 2014, 62, 5485-5496.	5.1	9
31	Novel Microstrip Fed Mechanically Tunable Combline Cavity Filter. IEEE Microwave and Wireless Components Letters, 2013, 23, 578-580.	3.2	15
32	Optical antenna of comb-shaped split ring architecture for increased field localization in NIR and MIR. Optics Express, 2013, 21, 29455.	3.4	4
33	Derivation of Green's function representations for the analysis of sectoral waveguides embedded in cylindrically stratified media. , 2013, , .		0
34	Analysis of slotted sectoral waveguides embedded in cylindrically stratified media using closed-form Green's function representations. , 2013, , .		0
35	Three-dimensional study of planar optical antennas made of split-ring architecture outperforming dipole antennas for increased field localization. Optics Letters, 2012, 37, 139.	3.3	2
36	A Simple Analytical Expression for the Gradient Induced Potential on Active Implants During MRI. IEEE Transactions on Biomedical Engineering, 2012, 59, 2845-2851.	4.2	8

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37	Closed-Form Green's Function Representations for Mutual Coupling Calculations Between Apertures on a Perfect Electric Conductor Circular Cylinder Covered With Dielectric Layers. IEEE Transactions on Antennas and Propagation, 2011, 59, 3094-3098.	5.1	14
38	Analytic expressions for the ultimate intrinsic signal-to-noise ratio and ultimate intrinsic specific absorption rate in MRI. Magnetic Resonance in Medicine, 2011, 66, 846-858.	3.0	17
39	Characteristic Basis Function Method for Solving Electromagnetic Scattering Problems Over Rough Terrain Profiles. IEEE Transactions on Antennas and Propagation, 2010, 58, 1579-1589.	5.1	30
40	On the Capacity of Printed Planar Rectangular Patch Antenna Arrays in the MIMO Channel: Analysis and Measurements [Wireless Corner]. IEEE Antennas and Propagation Magazine, 2010, 52, 181-193.	1.4	2
41	Closed-form green's functions in cylindrically stratified media for method of moments applications. , 2009, , .		4
42	Particle swarm optimization of dipole arrays for superior MIMO capacity. Microwave and Optical Technology Letters, 2009, 51, 333-337.	1.4	2
43	Closed-Form Green's Function Representations in Cylindrically Stratified Media for Method of Moments Applications. IEEE Transactions on Antennas and Propagation, 2009, 57, 1158-1168.	5.1	35
44	A comparative investigation of SRR- and CSRR-based band-reject filters: Simulations, experiments, and discussions. Microwave and Optical Technology Letters, 2008, 50, 519-523.	1.4	37
45	Determining the Effective Constitutive Parameters of Finite Periodic Structures: Photonic Crystals and Metamaterials. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1423-1434.	4.6	11
46	Capacity of printed dipole arrays in the MIMO channel. IEEE Antennas and Propagation Magazine, 2008, 50, 190-198.	1.4	4
47	Efficient Analysis of Phased Arrays of Microstrip Patches Using a Hybrid Generalized Forward Backward Method/Green's Function Technique With a DFT Based Acceleration Algorithm. IEEE Transactions on Antennas and Propagation, 2008, 56, 1669-1678.	5.1	5
48	A model with electric fields for the inclusion of mutual coupling effects in the MIMO channel. , 2007, , .		0
49	Achieving transparency and maximizing scattering with metamaterial-coated conducting cylinders. Physical Review E, 2007, 76, 056603.	2.1	33
50	Investigation of metamaterial coated conducting cylinders for achieving transparency and maximizing radar cross section. , 2007, , .		1
51	European collaboration in conformal antenna research. , 2007, , .		1
52	A closed-form solution to the asymptotic part of the MOM impedance matrix and the MOM excitation vector for printed structures on planar grounded dielectric slabs. Microwave and Optical Technology Letters, 2007, 49, 882-886.	1.4	0
53	Efficient Computation of Nonparaxial Surface Fields Excited on an Electrically Large Circular Cylinder With an Impedance Boundary Condition. IEEE Transactions on Antennas and Propagation, 2006, 54, 2559-2567.	5.1	8
54	Application of Iterative Techniques for Electromagnetic Scattering From Dielectric Random and Reentrant Rough Surfaces. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 3320-3329.	6.3	10

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55	Scan Blindness Phenomenon in Conformal Finite Phased Arrays of Printed Dipoles. IEEE Transactions on Antennas and Propagation, 2006, 54, 1699-1708.	5.1	7
56	Investigation of planar and conformal printed arrays for MIMO performance analysis. , 2006, , .		2
57	Spectrally accelerated biconjugate gradient stabilized method for scattering from and propagation over electrically large inhomogeneous geometries. Microwave and Optical Technology Letters, 2005, 46, 158-162.	1.4	3
58	Extension of forward-backward method with DFT-based acceleration algorithm for the efficient analysis of large periodic arrays with arbitrary boundaries. Microwave and Optical Technology Letters, 2005, 47, 293-298.	1.4	2
59	Examination of existent propagation models over large inhomogeneous terrain profiles using fast integral equation solution. IEEE Transactions on Antennas and Propagation, 2005, 53, 3080-3083.	5.1	30
60	Analysis of finite arrays of circumferentially oriented printed dipoles on electrically large cylinders. Microwave and Optical Technology Letters, 2004, 42, 299-304.	1.4	3
61	Analysis of Finite Arrays of Axially Directed Printed Dipoles on Electrically Large Circular Cylinders. IEEE Transactions on Antennas and Propagation, 2004, 52, 2586-2595.	5.1	17
62	Efficient analysis of large phased arrays using iterative MoM with DFT-based acceleration algorithm. Microwave and Optical Technology Letters, 2003, 39, 89-94.	1.4	4
63	Efficient analysis of input impedance and mutual coupling of microstrip antennas mounted on large coated cylinders. IEEE Transactions on Antennas and Propagation, 2003, 51, 739-749.	5.1	45
64	Propagation and coverage analysis over terrain profiles comparing empirical approaches with numerically exact solutions. , 2003, , .		1
65	Paraxial space-domain formulation for surface fields on a large dielectric coated circular cylinder. IEEE Transactions on Antennas and Propagation, 2002, 50, 1577-1587.	5.1	18
66	Applications of hybrid discrete Fourier transform moment method to the fast analysis of large rectangular dipole arrays printed on a thin grounded dielectric substrate. Microwave and Optical Technology Letters, 2002, 34, 203-207.	1.4	3
67	Frequency-selective loading for a transmitting active integrated antenna. Microwave and Optical Technology Letters, 2001, 31, 3-5.	1.4	0
68	Efficient computation of surface fields excited on a dielectric-coated circular cylinder. IEEE Transactions on Antennas and Propagation, 2000, 48, 1507-1516.	5.1	44