

Leung Tsang

List of Publications by Year in descending order

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264
papers

9,600
citations

87888

38
h-index

51608

86
g-index

272
all docs

272
docs citations

272
times ranked

4867
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifrequency Full-Wave Simulations of Vegetation Using a Hybrid Method. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 275-285.	4.6	10
2	Greenland Ice Sheet Subsurface Temperature Estimation Using Ultrawideband Microwave Radiometry. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	17
3	Electromagnetic Scattering and Emission From Large Rough Surfaces With Multiple Elevations Using the MLS-D-SMCG Method. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5393-5406.	6.3	9
4	Wave Propagation in Vegetation Field Using a Hybrid Method. IEEE Transactions on Antennas and Propagation, 2021, 69, 6752-6761.	5.1	21
5	Microwave Radiometry at Frequencies From 500 to 1400 MHz: An Emerging Technology for Earth Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4894-4914.	4.9	16
6	Snow Water Equivalent Retrieval Using Active and Passive Microwave Observations. Water Resources Research, 2021, 57, e2020WR027563.	4.2	8
7	Broadband Green's function-KKR-multiple scattering method for calculations of normalized band-field solutions in magneto-optics crystals. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 3159.	2.1	2
8	A Partially Coherent Approach for Modeling Polar Ice Sheet 0.5-2-GHz Thermal Emission. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8062-8072.	6.3	7
9	Multi-Frequency NMM3D Simulations of Wave Propagation in Vegetation for Remote Sensing of Soil Moisture. , 2021, , .		1
10	A Ku-Band Airborne InSAR for Snow Characterization at Trail Valley Creek. , 2021, , .		2
11	Multi-frequencies Full-wave Simulations of Wave Propagation in Vegetation for Remote Sensing of Soil Moisture. , 2021, , .		0
12	Scattering and Emission of Electromagnetic Waves From Random Layered Media With Random Rough Interfaces: A Partially Coherent Cascading Approach. IEEE Transactions on Antennas and Propagation, 2020, 68, 3094-3102.	5.1	2
13	Accurate Calculations of Emissivities of Polar Ocean Surfaces Between 0.5 and 2 GHz Using an NIBC/Nystrom/SMCG Method. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2732-2744.	6.3	14
14	MULTIPLE SCATTERING OF WAVES BY COMPLEX OBJECTS USING HYBRID METHOD OF T-MATRIX AND FOLDY-LAX EQUATIONS USING VECTOR SPHERICAL WAVES AND VECTOR SPHEROIDAL WAVES. Progress in Electromagnetics Research, 2020, 168, 87-111.	4.4	5
15	Broadband Green's Function (BBGFL) Method With Imaginary Wavenumber Extractions for Simulations of Radiated Emissions From Irregular Shaped Printed Circuit Board. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2209-2216.	2.2	1
16	Broadband Vector Potential Dyadic Green's Function and Normal Modes in 3-D Cavity of Irregular Shape. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3210-3218.	4.6	3
17	Band calculations using broadband Green's functions and the KKR method with applications to magneto-optics and photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3896.	2.1	4
18	Fast and broadband computation of the Green's function in a cavity resonator of irregular shape using an imaginary wave number extraction technique. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 399.	1.5	2

#	ARTICLE	IF	CITATIONS
19	Full-Wave Simulations of Scattering in Vegetation for Microwave Remote Sensing of Soil Moisture. , 2020, , .		0
20	Snow Size Distribution and Aggregation Modeling Based on the Bicontinuous Model. , 2020, , .		0
21	A MLS-D-SMCG METHOD FOR SCATTERING AND EMISSION FROM OCEAN-SURFACES WITH FULL OCEAN SPECTRUM AND LARGE RMS HEIGHTS. , 2020, , .		0
22	Full Wave Simulations of Vegetation/Trees Using 3D Vector Cylindrical Wave Expansions In Foldy-Lax Multiple Scattering Equations. , 2019, , .		0
23	Remote Sensing of Sea Ice Thickness and Salinity With 0.5-2 GHz Microwave Radiometry. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8672-8684.	6.3	15
24	Efficient Evaluations of Periodic Green's Functions Through Imaginary Wavenumber Cancellations. , 2019, , .		1
25	Soil moisture retrieval from time series multi-angular radar data using a dry down constraint. Remote Sensing of Environment, 2019, 231, 111237.	11.0	29
26	BROADBAND GREEN'S FUNCTION WITH HIGHER ORDER LOW WAVENUMBER EXTRACTIONS FOR AN INHOMOGENEOUS WAVEGUIDE WITH IRREGULAR SHAPE. Progress in Electromagnetics Research, 2019, 164, 75-95.	4.4	4
27	A PHYSICAL PATCH MODEL FOR GNSS-R LAND APPLICATIONS. Progress in Electromagnetics Research, 2019, 165, 93-105.	4.4	10
28	An NIBC/Nystrom/SMCG Method Implemented with MoM for Broadband Emissivities from Large-scale Polar Ocean Surfaces. , 2019, , .		0
29	Full Wave Solutions of Multiple Scattering Using 3D Vector Cylindrical Wave Expansions In Foldy-Lax Equations. , 2019, , .		0
30	Theoretical Modeling of Multi-frequency Tomography Radar Observations of Snow Stratigraphy. , 2019, , .		0
31	Propagation of Waves in Randomly Distributed Cylinders Using Three-Dimensional Vector Cylindrical Wave Expansions in Foldy-Lax Equations. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2019, 4, 214-226.	2.2	22
32	A Partially Coherent Approach for Scattering of Electromagnetic Waves from Random Layered Media with 3D Rough Interfaces. , 2019, , .		0
33	Ocean Scattering and Emission Using Nystrom/NIBC Combined with SMCG. , 2019, , .		2
34	Van de Hulst essay: Multiple scattering of waves by discrete scatterers and rough surfaces. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 224, 566-587.	2.3	3
35	3-D Electromagnetic Scattering From Multilayer Dielectric Media With 2-D Random Rough Interfaces Using \mathcal{H} -Matrix Approach. IEEE Transactions on Antennas and Propagation, 2019, 67, 495-503.	5.1	14
36	500-2000-MHz Brightness Temperature Spectra of the Northwestern Greenland Ice Sheet. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1485-1496.	6.3	42

#	ARTICLE	IF	CITATIONS
37	Sea Surface Radar Scattering at L-Band Based on Numerical Solution of Maxwell's Equations in 3-D (NMM3D). IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3137-3147.	6.3	24
38	Modeling of Scattering in Arbitrary-Shape Waveguide Using Broadband Green's Function With Higher Order Low Wavenumber Extractions. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 16-25.	2.2	11
39	Numerical 3D Solutions of Maxwell Equations Based on Hybrid Method Combining Generalized T Matrix and Foldy-Lax Multiple Scattering Theory for Vegetation/Trees Scattering. , 2018, , .		0
40	Full Wave Solutions of Multiple Scattering Using Vector Spheroidal Waves and Addition Theorem. , 2018, , .		3
41	Measurements of 0.5-2 GHz Thermal Emission Spectra from the Greenland Ice Sheet, Sea Ice, and Permafrost: Results from September 2017 Campaign. , 2018, , .		3
42	Effects of Localized Defects / Sources in a Periodic Lattice Using Green's Function of Periodic Scatterers. , 2018, , .		3
43	ELECTROMAGNETIC SCATTERING AND EMISSION BY OCEAN SURFACES BASED ON NEIGHBORHOOD IMPEDANCE BOUNDARY CONDITION (NIBC) WITH DENSE GRID: ACCURATE EMISSIVITY AND SENSITIVITY TO SALINITY. Progress in Electromagnetics Research B, 2018, 81, 141-162.	1.0	10
44	Effective Permittivity and Scattering of Bicontinuous Random Medium with Strong Permittivity Fluctuation Theory. , 2018, , .		0
45	NMM3D Full Wave Simulations of Vegetation and Forest Effects in Microwave Remote Sensing. , 2018, , .		3
46	Soil Moisture Retrieval Using full Wave Simulations of 3-D Maxwell Equations for Compensating Vegetation Effects. , 2018, , .		4
47	Experimental Results of Snow Measurement Using P-Band Signals of Opportunity. , 2018, , .		3
48	Broadband Green's function with higher order extractions for arbitrary shaped waveguide obeying Neumann boundary conditions. , 2018, , .		2
49	An Efficient Electromagnetic Scattering Optimization Scheme for Multiscale Problems Using Green's Functions of Arbitrary Scatterers. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 97-107.	2.2	1
50	Forward and Inverse Radar Modeling of Terrestrial Snow Using SnowSAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7122-7132.	6.3	30
51	Surface Soil Moisture Retrieval Using the L-Band Synthetic Aperture Radar Onboard the Soil Moisture Activeâ€“Passive Satellite and Evaluation at Core Validation Sites. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1897-1914.	6.3	64
52	Microwave Signatures of Snow Cover Using Numerical Maxwell Equations Based on Discrete Dipole Approximation in Bicontinuous Media and Half-Space Dyadic Green's Function. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4686-4702.	4.9	20
53	Propagation and Scattering by a Layer of Randomly Distributed Dielectric Cylinders Using Monte Carlo Simulations of 3D Maxwell Equations With Applications in Microwave Interactions With Vegetation. IEEE Access, 2017, 5, 11985-12003.	4.2	43
54	Rough Surface and Volume Scattering of Soil Surfaces, Ocean Surfaces, Snow, and Vegetation Based on Numerical Maxwell Model of 3-D Simulations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4703-4720.	4.9	19

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55	Scattering of waves by a half-space of periodic scatterers using broadband Green's function. Optics Letters, 2017, 42, 4667.	3.3	10
56	Scattering of lossy dielectric surfaces in full wave simulation of Maxwell's equations with dense grid and neighborhood impedance boundary conditions. , 2017, , .		0
57	Hybrid method combining generalized T matrix of single objects and Foldy-Lax equations in NMM3D microwave scattering in vegetation. , 2017, , .		2
58	Green's function of periodic scatterers applied to scattering by finite periodic arrays of scatterers. , 2017, , .		0
59	Full wave simulation of snowpack applied to microwave remote sensing of sea ice. , 2017, , .		3
60	A new vegetation model based on numerical 3D solutions of maxwell equations. , 2017, , .		1
61	A partial coherent model of brightness temperatures of polar ICE sheets at I band incorporating multi-layer roughness effects based on SPM2 theory. , 2017, , .		2
62	Microwave remote sensing of soil, ocean, snow and vegetation based on 3D Numerical Solutions of Maxwell Equations (NMM3D). , 2017, , .		0
63	Effect of Particle Shape, Density, and Inhomogeneity on the Microwave Optical Properties of Graupel and Hailstones. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6366-6378.	6.3	11
64	MODELLING AND VALIDATION OF COMBINED ACTIVE AND PASSIVE MICROWAVE REMOTE SENSING OF AGRICULTURAL VEGETATION AT L-BAND. Progress in Electromagnetics Research B, 2017, 78, 91-124.	1.0	9
65	Green's functions, including scatterers, for photonic crystals and metamaterials. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1450.	2.1	14
66	Scattering of electromagnetic waves from 3D multilayer random rough surfaces based on the second-order small perturbation method: energy conservation, reflectivity, and emissivity. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 395.	1.5	26
67	The Ultra-Wideband Software Defined Microwave Radiometer (UWBRAD) for Ice sheet subsurface temperature sensing: Calibration and campaign results. , 2017, , .		5
68	Depolarized Backscattering of Rough Surface by AIEM Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4740-4752.	4.9	26
69	Using Broadband Green's function method to model interconnects of traces and vias. , 2017, , .		0
70	Validation of physical model and radar retrieval algorithm of snow water equivalent using SnowSAR data. , 2017, , .		0
71	SCATTERING AND TRANSMISSION OF WAVES IN MULTIPLE RANDOM ROUGH SURFACES: ENERGY CONSERVATION STUDIES WITH THE SECOND ORDER SMALL PERTURBATION METHOD. Progress in Electromagnetics Research, 2016, 157, 1-20.	4.4	10
72	Calculations of band diagrams and low frequency dispersion relations of 2D periodic dielectric scatterers using broadband Green's function with low wavenumber extraction (BBGFL). Optics Express, 2016, 24, 945.	3.4	27

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73	Uniaxial Effective Permittivity of Anisotropic Bicontinuous Random Media Using NMM3D. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1168-1172.	3.1	13
74	Effects of layered media with random permittivities and roughness on icesheet emissions from 0.5â€“2.0 GHz. , 2016, , .		0
75	Numerical simulation of Maxwell's equation in 3D (NMM3D) applied to active and passive remote sensing of terrestrial snow and snow on sea ice. , 2016, , .		0
76	The Ultra-wideband Software-Defined Radiometer (UWBRAD) for ice sheet internal temperature sensing: Results from recent observations. , 2016, , .		11
77	Multiple Scattering Effects With Cyclical Correction in Active Remote Sensing of Vegetated Surface Using Vector Radiative Transfer Theory. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1414-1429.	4.9	34
78	Analysis of radiated emissions from PCB using broadband Green's function method. , 2016, , .		1
79	Fast Electromagnetic Analysis of Emissions From Printed Circuit Board Using Broadband Green's Function Method. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 1642-1652.	2.2	18
80	Multiple scattering effects in vegetated surfaces and rough surface boundary condition at C-band for remote sensing of soil moisture. , 2016, , .		0
81	Combined active and passive microwave remote sensing of soil moisture for vegetated surfaces at L-band. , 2016, , .		2
82	The broadband green's funtion applied to band diagram simulation of 2D perodic noncircular dielectric scatterers. , 2016, , .		0
83	Coherent Model of L-Band Radar Scattering by Soybean Plants: Model Development, Evaluation, and Retrieval. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 272-284.	4.9	26
84	Microwave Scattering and Medium Characterization for Terrestrial Snow With QCAâ€“Mie and Bicontinuous Models: Comparison Studies. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3637-3648.	6.3	24
85	Copolarized and Cross-Polarized Backscattering From Random Rough Soil Surfaces From L-Band to Ku-Band Using Numerical Solutions of Maxwell's Equations With Near-Field Precondition. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 651-662.	6.3	21
86	Simulations of scattering matrix and coherency matrix for Pol-SAR applications of soil and vegetated surfaces using 3-D numerical solutions of Maxwell equation (NMM3D). , 2015, , .		0
87	BROADBAND GREEN'S FUNCTION WITH LOW WAVENUMBER EXTRACTION FOR ARBITRARY SHAPED WAVEGUIDE AND APPLICATIONS TO MODELING OF VIAS IN FINITE POWER/GROUND PLANE. Progress in Electromagnetics Research, 2015, 152, 105-125.	4.4	29
88	BROADBAND CALCULATIONS OF BAND DIAGRAMS IN PERIODIC STRUCTURES USING THE BROADBAND GREEN'S FUNCTION WITH LOW WAVENUMBER EXTRACTION (BBGFL). Progress in Electromagnetics Research, 2015, 153, 57-68.	4.4	22
89	Physical Models of Layered Polar Firn Brightness Temperatures From 0.5 to 2 GHz. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3681-3691.	4.9	44
90	Modeling Both Active and Passive Microwave Remote Sensing of Snow Using Dense Media Radiative Transfer (DMRT) Theory With Multiple Scattering and Backscattering Enhancement. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4418-4430.	4.9	53

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91	Radiometric Approach for Estimating Relative Changes in Intraglacier Average Temperature. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 134-143.	6.3	53
92	Bicontinuous DMRT model extracted from multi-size QCA with application to terrestrial snowpack. , 2014, , .		1
93	Efficient electromagnetic modeling and analysis for off-chip interconnects in SIW structures and 3D ICs. , 2014, , .		0
94	Optical imaging over a plasmonic thin film with deep-subwavelength surface roughness. , 2014, , .		0
95	Bicontinuous/DMRT model applied to active and passive microwave remote sensing of terrestrial snow. , 2014, , .		2
96	Dense Media Radiative Transfer Applied to SnowScat and SnowSAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3811-3825.	4.9	44
97	Models of L-Band Radar Backscattering Coefficients Over Global Terrain for Soil Moisture Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1381-1396.	6.3	110
98	Fast and Broadband Modeling Method for Multiple Vias With Irregular Antipad in Arbitrarily Shaped Power/Ground Planes in 3-D IC and Packaging Based on Generalized Foldy's Lax Equations. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 685-696.	2.5	24
99	Multiple scattering effects with inclusion of cyclical terms in radar scattering of vegetated surfaces using vector radiative transfer theory. , 2014, , .		0
100	Modeling multiple scattering among vertical interconnects for SIW structures and 3D ICs in arbitrarily shaped waveguide. , 2013, , .		2
101	Modeling of Vias Sharing the Same Antipad in Planar Waveguide With Boundary Integral Equation and Group T-Matrix Method. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 315-327.	2.5	35
102	Active and Passive Vegetated Surface Models With Rough Surface Boundary Conditions From NMM3D. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1698-1709.	4.9	23
103	A generalized modeling method for signal/power integrity analysis of 3D coupled interconnects in finite cavity based on 1D technology. , 2013, , .		2
104	Electromagnetic Computation in Scattering of Electromagnetic Waves by Random Rough Surface and Dense Media in Microwave Remote Sensing of Land Surfaces. Proceedings of the IEEE, 2013, 101, 255-279.	21.3	62
105	Subwavelength imaging of plasmon superlens with 3-dimensional small surface roughness. , 2012, , .		0
106	Wave Propagation in Parallel Plate Metallic Waveguide With Finite Conductivity and Three Dimensional Roughness. IEEE Transactions on Antennas and Propagation, 2012, 60, 5867-5880.	5.1	11
107	Electromagnetic Models of Co/Cross Polarization of Bicontinuous/DMRT in Radar Remote Sensing of Terrestrial Snow at X- and Ku-band for CoReH2O and SCLP Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1024-1032.	4.9	39
108	Electromagnetic Scattering of Randomly Rough Soil Surfaces Based on Numerical Solutions of Maxwell Equations in Three-Dimensional Simulations Using a Hybrid UV/PBTG/SMCG Method. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4025-4035.	6.3	61

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109	A new efficient method for modeling dense via arrays with 1D discretization in 2D method of moment and group T matrix. , 2012, , .		3
110	Microwave snow backscattering modeling based on two-dimensional snow section image and equivalent grain size. , 2012, , .		3
111	Random Rough Surface Effects in Waveguides Using Mode Matching Technique and the Method of Moments. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 140-148.	2.5	6
112	Simulation and measurement correlation of random rough surface effects in interconnects. , 2012, , .		5
113	Soil Moisture Retrieval Using Time-Series Radar Observations Over Bare Surfaces. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1853-1863.	6.3	85
114	Image enhancement using rough surface effects in plasmon materials. , 2011, , .		0
115	Hybrid UV/PBTG/SMCG method based on NMM3D for 3D electromagnetic scattering of random rough surfaces. , 2011, , .		0
116	A study of the roughness propagation effects in waveguides with the mode matching technique combined with the method of moments. , 2011, , .		1
117	Conical electromagnetic waves diffraction from sastrugi type surfaces of layered snow dunes on Greenland ice sheets in passive microwave remote sensing. , 2011, , .		5
118	Electromagnetic modeling of massively coupled through silicon vias for 3D interconnects. Microwave and Optical Technology Letters, 2011, 53, 1204-1206.	1.4	23
119	Random rough surface effects in interconnects studied by small perturbation theory in waveguide model. , 2011, , .		3
120	Backscattering Coefficients, Coherent Reflectivities, and Emissivities of Randomly Rough Soil Surfaces at L-Band for SMAP Applications Based on Numerical Solutions of Maxwell Equations in Three-Dimensional Simulations. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2557-2568.	6.3	91
121	Electromagnetic Scattering by Bicontinuous Random Microstructures With Discrete Permittivities. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3139-3151.	6.3	81
122	The Soil Moisture Active Passive (SMAP) Mission. Proceedings of the IEEE, 2010, 98, 704-716.	21.3	2,546
123	Bistatic scattering, backscattering and emissivities of randomly rough soil surfaces at L band based on numerical solutions of Maxwell equations of 3 Dimensional simulations. , 2010, , .		2
124	Signal Integrity Analysis of Package and Printed Circuit Board With Multiple Vias in Substrate of Layered Dielectrics. IEEE Transactions on Advanced Packaging, 2010, 33, 510-516.	1.6	36
125	Random Rough Surface Effects on Wave Propagation in Interconnects. IEEE Transactions on Advanced Packaging, 2010, 33, 839-856.	1.6	52
126	Denense media radiative transfer theory for passive remote sensing and application to SWE Retrieval. , 2010, , .		0

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127	Active Remote Sensing of Snow Using NMM3D/DMRT and Comparison With CLPX II Airborne Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 689-697.	4.9	20
128	Rough surface effects in parallel plate waveguide at gigahertz frequencies. , 2009, , .		4
129	Comparison with CLPX II airborne data using DMRT model. , 2009, , .		0
130	Bistatic reflection and transmission of electromagnetic scattering by rough surfaces with large heights and slopes. , 2009, , .		0
131	Modeling Multiple Vias With Arbitrary Shape of Antipads and Pads in High Speed Interconnect Circuits. IEEE Microwave and Wireless Components Letters, 2009, 19, 12-14.	3.2	38
132	Wave Propagation in a Randomly Rough Parallel-Plate Waveguide. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1216-1223.	4.6	35
133	Third and fourth Stokes parameters in polarimetric passive microwave remote sensing of rough surfaces over layered media. Microwave and Optical Technology Letters, 2008, 50, 3063-3069.	1.4	27
134	Fast Computation of Layered Medium Green's Functions of Multilayers and Lossy Media Using Fast All-Modes Method and Numerical Modified Steepest Descent Path Method. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1446-1454.	4.6	26
135	Microwave emission from snowpacks: modeling the effects of volume scattering, surface scattering and layering. , 2008, , .		8
136	Full-Wave Solver for Microstrip Trace and Through-Hole Via in Layered Media. IEEE Transactions on Advanced Packaging, 2008, 31, 292-302.	1.6	26
137	Emissivities of Random Rough Surface over Layered Media. , 2008, , .		0
138	Numerical Simulations of Emission and Bistatic Scattering from Soils with Rough Surfaces of Exponential Correlation Functions. , 2008, , .		0
139	Characterization of Errors in a Coupled Snow Hydrology "Microwave Emission Model. Journal of Hydrometeorology, 2008, 9, 149-164.	1.9	45
140	Modeling Active Microwave Remote Sensing of Multilayer Dry Snow using Dense Media Radiative Transfer Theory. , 2008, , .		2
141	Electromagnetic Fields of Hertzian Dipoles in Layered Negative Refractive Index Materials. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 749-752.	4.0	3
142	Amplitude and phase distributions for bistatic scattering from Pierson-Moskowitz sea surfaces. , 2008, , .		3
143	Evaluation of time domain Green's functions for layered medium using FAM and NMSP methods. , 2008, , .		0
144	Frequency and polarimetric dependence of active and passive microwave remote sensing signatures in rough surface problems with small to moderate rms heights. , 2007, , .		0

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145	Anomalous properties of the band-edge states in large two-dimensional photonic quasicrystals. <i>Physical Review B</i> , 2007, 76, .	3.2	10
146	Emissivities of rough surface over layered media in microwave remote sensing of snow. , 2007, , .		1
147	Modeling multi-layer effects in passive microwave remote sensing of dry snow using Dense Media Radiative Transfer Theory (DMRT) based on quasicrystalline approximation. , 2007, , .		6
148	Electromagnetic Fields of Hertzian Dipoles in Layered Media of Moderate Thickness Including the Effects of All Modes. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007, 6, 316-319.	4.0	23
149	Off-Chip Rough-Metal-Surface Propagation Loss Modeling and Correlation with Measurements. , 2007, , .		42
150	Estimation of Roughness-Induced Power Absorption From Measured Surface Profile Data. <i>IEEE Microwave and Wireless Components Letters</i> , 2007, 17, 486-488.	3.2	32
151	Multiple scattering of waves by dense random distributions of sticky particles for applications in microwave scattering by terrestrial snow. <i>Radio Science</i> , 2007, 42, .	1.6	46
152	Fast all modes (FAM) method combined with NMSP for evaluating spatial domain layered medium Green's functions of moderate thickness. <i>Microwave and Optical Technology Letters</i> , 2007, 49, 3112-3118.	1.4	12
153	Modeling Effects of Random Rough Interface on Power Absorption Between Dielectric and Conductive Medium in 3-D Problem. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007, 55, 511-517.	4.6	36
154	Bistatic Scattering and Emissivities of Lossy Dielectric Surfaces With Exponential Correlation Functions. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 62-72.	6.3	27
155	Modeling Active Microwave Remote Sensing of Snow Using Dense Media Radiative Transfer (DMRT) Theory With Multiple-Scattering Effects. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 990-1004.	6.3	158
156	Modeling the passive microwave remote sensing of snow using dense media radiative transfer theory with NMM3D rough-surface boundary conditions. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 557-562.	1.4	3
157	Application of the multilevel UV method to calculate microwave absorption and emission of ocean foam with Kelvin's tetrakaidecahedron structure. <i>Microwave and Optical Technology Letters</i> , 2005, 45, 445-450.	1.4	3
158	Transmission and scattering on interconnects with via structures. <i>Microwave and Optical Technology Letters</i> , 2005, 46, 446-452.	1.4	12
159	Scattering by rough surface using a hybrid technique combining the multilevel UV method with the sparse matrix canonical grid method. <i>Radio Science</i> , 2005, 40, n/a-n/a.	1.6	20
160	Statistical distributions of fields in urban environment based on Monte Carlo simulations of Maxwell equations. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2004, 3, 34-37.	4.0	3
161	On the Analysis of Statistical Distributions of UWB Signal Scattering by Random Rough Surfaces Based on Monte Carlo Simulations of Maxwell Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2004, 52, 3200-3206.	5.1	21
162	Propagation over terrain and urban environment using the multilevel UV method and a hybrid UV/SDFMM method. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2004, 3, 336-339.	4.0	5

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