

Michael I Mishchenko

List of Publications by Year in descending order

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277
papers

20,429
citations

10389

72
h-index

12946

131
g-index

297
all docs

297
docs citations

297
times ranked

8885
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of spheroid models to account for aerosol particle nonsphericity in remote sensing of desert dust. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	1,195
2	T-matrix computations of light scattering by nonspherical particles: A review. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1996, 55, 535-575.	2.3	1,010
3	Calculation of radiative fluxes from the surface to top of atmosphere based on ISCCP and other global data sets: Refinements of the radiative transfer model and the input data. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	920
4	Capabilities and limitations of a current FORTRAN implementation of the T-matrix method for randomly oriented, rotationally symmetric scatterers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998, 60, 309-324.	2.3	736
5	Calculation of the T matrix and the scattering matrix for ensembles of spheres. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 2266.	1.5	642
6	Modeling phase functions for dustlike tropospheric aerosols using a shape mixture of randomly oriented polydisperse spheroids. <i>Journal of Geophysical Research</i> , 1997, 102, 16831-16847.	3.3	567
7	A multiple sphere T-matrix Fortran code for use on parallel computer clusters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2182-2192.	2.3	365
8	Satellite retrieval of aerosol properties over the ocean using polarization as well as intensity of reflected sunlight. <i>Journal of Geophysical Research</i> , 1997, 102, 16989-17013.	3.3	361
9	Spectrally Consistent Scattering, Absorption, and Polarization Properties of Atmospheric Ice Crystals at Wavelengths from 0.2 to 100 μm . <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 330-347.	1.7	358
10	Bidirectional reflectance of flat, optically thick particulate layers: an efficient radiative transfer solution and applications to snow and soil surfaces. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1999, 63, 409-432.	2.3	327
11	Calculation of the amplitude matrix for a nonspherical particle in a fixed orientation. <i>Applied Optics</i> , 2000, 39, 1026.	2.1	292
12	Uncertainties in satellite remote sensing of aerosols and impact on monitoring its long-term trend: a review and perspective. <i>Annales Geophysicae</i> , 2009, 27, 2755-2770.	1.6	290
13	Scattering and absorption property database for nonspherical ice particles in the near- through far-infrared spectral region. <i>Applied Optics</i> , 2005, 44, 5512.	2.1	284
14	Accurate Monitoring of Terrestrial Aerosols and Total Solar Irradiance: Introducing the Glory Mission. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 677-692.	3.3	277
15	T-matrix computations of light scattering by large spheroidal particles. <i>Optics Communications</i> , 1994, 109, 16-21.	2.1	270
16	Depolarization of light backscattered by randomly oriented nonspherical particles. <i>Optics Letters</i> , 1995, 20, 1356.	3.3	264
17	Aerosol retrievals over the ocean by use of channels 1 and 2 AVHRR data: sensitivity analysis and preliminary results. <i>Applied Optics</i> , 1999, 38, 7325.	2.1	242
18	Multi-decadal aerosol variations from 1980 to 2009: a perspective from observations and a global model. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3657-3690.	4.9	240

#	ARTICLE	IF	CITATIONS
19	Polarimetric remote sensing of atmospheric aerosols: Instruments, methodologies, results, and perspectives. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 224, 474-511.	2.3	224
20	A study of radiative properties of fractal soot aggregates using the superposition T-matrix method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 2656-2663.	2.3	218
21	Monitoring of aerosol forcing of climate from space: analysis of measurement requirements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 88, 149-161.	2.3	211
22	Long-Term Satellite Record Reveals Likely Recent Aerosol Trend. <i>Science</i> , 2007, 315, 1543-1543.	12.6	206
23	Nonsphericity of dust-like tropospheric aerosols: Implications for aerosol remote sensing and climate modeling. <i>Geophysical Research Letters</i> , 1995, 22, 1077-1080.	4.0	204
24	Light scattering by polydispersions of randomly oriented spheroids with sizes comparable to wavelengths of observation. <i>Applied Optics</i> , 1994, 33, 7206.	2.1	197
25	Overview of Scattering by Nonspherical Particles. , 2000, , 29-60.		185
26	Modeling of the scattering and radiative properties of nonspherical dust-like aerosols. <i>Journal of Aerosol Science</i> , 2007, 38, 995-1014.	3.8	180
27	Light scattering by size- and shape distributions of randomly oriented axially symmetric particles of a size comparable to a wavelength. <i>Applied Optics</i> , 1993, 32, 4652.	2.1	160
28	Sensitivity of cirrus cloud albedo, bidirectional reflectance and optical thickness retrieval accuracy to ice particle shape. <i>Journal of Geophysical Research</i> , 1996, 101, 16973-16985.	3.3	154
29	Asymmetry parameters of the phase function for densely packed scattering grains. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1994, 52, 95-110.	2.3	151
30	Efficient implementation of the invariant imbedding T-matrix method and the separation of variables method applied to large nonspherical inhomogeneous particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 116, 169-183.	2.3	146
31	Depolarization of lidar returns by small ice crystals: An application to contrails. <i>Geophysical Research Letters</i> , 1998, 25, 309-312.	4.0	138
32	Scattering and radiative properties of complex soot and soot-containing aggregate particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 106, 262-273.	2.3	135
33	Multiple scattering by random particulate media: exact 3D results. <i>Optics Express</i> , 2007, 15, 2822.	3.4	132
34	Scattering of light by polydisperse, randomly oriented, finite circular cylinders. <i>Applied Optics</i> , 1996, 35, 4927.	2.1	130
35	Retrieval of aerosol properties over the ocean using multispectral and multiangle Photopolarimetric measurements from the Research Scanning Polarimeter. <i>Geophysical Research Letters</i> , 2001, 28, 243-246.	4.0	130
36	Errors induced by the neglect of polarization in radiance calculations for rayleigh-scattering atmospheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1994, 51, 491-510.	2.3	128

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37	Efficient finite-difference time-domain scheme for light scattering by dielectric particles: application to aerosols. <i>Applied Optics</i> , 2000, 39, 3727.	2.1	128
38	On the nature of the polarization opposition effect exhibited by Saturn's rings. <i>Astrophysical Journal</i> , 1993, 411, 351.	4.5	125
39	Vector radiative transfer equation for arbitrarily shaped and arbitrarily oriented particles: a microphysical derivation from statistical electromagnetics. <i>Applied Optics</i> , 2002, 41, 7114.	2.1	124
40	Effects of aggregation on scattering and radiative properties of soot aerosols. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	124
41	Scattering of light by bispheres with touching and separated components. <i>Applied Optics</i> , 1995, 34, 4589.	2.1	120
42	Reduction in biomass burning aerosol light absorption upon humidification: roles of inorganically-induced hygroscopicity, particle collapse, and photoacoustic heat and mass transfer. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8949-8966.	4.9	119
43	Enhanced backscattering of polarized light from discrete random media: calculations in exactly the backscattering direction. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1992, 9, 978.	1.5	117
44	Past, present, and future of global aerosol climatologies derived from satellite observations: A perspective. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 106, 325-347.	2.3	117
45	Retrieval of Aerosol Scattering and Absorption Properties from Photopolarimetric Observations over the Ocean during the CLAMS Experiment. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1093-1117.	1.7	115
46	Aerosol retrievals from AVHRR radiances: effects of particle nonsphericity and absorption and an updated long-term global climatology of aerosol properties. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 79-80, 953-972.	2.3	106
47	First-principles modeling of electromagnetic scattering by discrete and discretely heterogeneous random media. <i>Physics Reports</i> , 2016, 632, 1-75.	25.6	104
48	Full angular profile of the coherent polarization opposition effect. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 888.	1.5	103
49	Electromagnetic scattering by nonspherical particles: A tutorial review. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 808-832.	2.3	103
50	The influence of inclusions on light scattering by large ice particles. <i>Journal of Geophysical Research</i> , 1996, 101, 23311-23316.	3.3	102
51	Multiple scattering, radiative transfer, and weak localization in discrete random media: Unified microphysical approach. <i>Reviews of Geophysics</i> , 2008, 46, .	23.0	102
52	Satellite remote sensing reveals regional tropospheric aerosol trends. <i>Optics Express</i> , 2007, 15, 7423.	3.4	101
53	Sensitivity of multiangle remote sensing observations to aerosol sphericity. <i>Journal of Geophysical Research</i> , 1997, 102, 16861-16870.	3.3	99
54	A Comparison of Model- and Satellite-Derived Aerosol Optical Depth and Reflectivity. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 441-460.	1.7	96

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55	Analysis of fine-mode aerosol retrieval capabilities by different passive remote sensing instrument designs. <i>Optics Express</i> , 2012, 20, 21457.	3.4	96
56	Improved T-matrix computations for large, nonabsorbing and weakly absorbing nonspherical particles and comparison with geometrical-optics approximation. <i>Applied Optics</i> , 1997, 36, 4305.	2.1	95
57	Scattering of light by large nonspherical particles: ray-tracing approximation versus T-matrix method. <i>Optics Letters</i> , 1995, 20, 1934.	3.3	94
58	A numerical testbed for remote sensing of aerosols, and its demonstration for evaluating retrieval synergy from a geostationary satellite constellation of GEO-CAPE and GOES-R. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 510-528.	2.3	94
59	Intercomparison of Satellite Retrieved Aerosol Optical Depth over the Ocean. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 499-513.	1.7	90
60	Soot superaggregates from flaming wildfires and their direct radiative forcing. <i>Scientific Reports</i> , 2014, 4, 5508.	3.3	90
61	Laboratory measurements of mineral dust scattering phase function and linear polarization. <i>Journal of Geophysical Research</i> , 1997, 102, 16871-16881.	3.3	89
62	The angular width of the coherent back-scatter opposition effect: An application to icy outer planet satellites. <i>Astrophysics and Space Science</i> , 1992, 194, 327-333.	1.4	87
63	APPLICATION OF THE T-MATRIX METHOD TO THE MEASUREMENT OF ASPHERICAL (ELLIPSOIDAL) PARTICLES WITH FORWARD SCATTERING OPTICAL PARTICLE COUNTERS. <i>Journal of Aerosol Science</i> , 2000, 31, 789-799.	3.8	86
64	Global Two-Channel AVHRR Retrievals of Aerosol Properties over the Ocean for the Period of NOAA-9 Observations and Preliminary Retrievals Using NOAA-7 and NOAA-11 Data. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 262-278.	1.7	85
65	Applicability of regular particle shapes in light scattering calculations for atmospheric ice particles. <i>Applied Optics</i> , 1996, 35, 4291.	2.1	84
66	Modeling errors in diffuse-sky radiation: Vector vs scalar treatment. <i>Geophysical Research Letters</i> , 1998, 25, 135-138.	4.0	83
67	Sensitivity of multiangle, multispectral polarimetric remote sensing over open oceans to water-leaving radiance: Analyses of RSP data acquired during the MILAGRO campaign. <i>Remote Sensing of Environment</i> , 2012, 118, 284-308.	11.0	83
68	Light scattering by polydisperse, rotationally symmetric nonspherical particles: Linear polarization. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1994, 51, 759-778.	2.3	81
69	COHERENT BACKSCATTERING VERIFIED NUMERICALLY FOR A FINITE VOLUME OF SPHERICAL PARTICLES. <i>Astrophysical Journal</i> , 2012, 760, 118.	4.5	81
70	Gustav Mie and the fundamental concept of electromagnetic scattering by particles: A perspective. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1210-1222.	2.3	79
71	Coherent backscatter and the opposition effect for E-type asteroids. <i>Planetary and Space Science</i> , 1993, 41, 173-181.	1.7	78
72	DIRECT SOLUTIONS OF THE MAXWELL EQUATIONS EXPLAIN OPPOSITION PHENOMENA OBSERVED FOR HIGH-ALBEDO SOLAR SYSTEM OBJECTS. <i>Astrophysical Journal</i> , 2009, 705, L118-L122.	4.5	77

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73	Inherent and apparent scattering properties of coated or uncoated spheres embedded in an absorbing host medium. <i>Applied Optics</i> , 2002, 41, 2740.	2.1	76
74	Polarization Properties of the Galilean Satellites of Jupiter: Observations and Preliminary Analysis. <i>Astrophysical Journal</i> , 1997, 487, 402-414.	4.5	74
75	How big should hexagonal ice crystals be to produce halos?. <i>Applied Optics</i> , 1999, 38, 1626.	2.1	74
76	Comprehensive T-matrix reference database: A 2004â€“06 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 106, 304-324.	2.3	74
77	Scattering of electromagnetic waves by ensembles of particles and discrete random media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2095-2127.	2.3	74
78	Toward unified satellite climatology of aerosol properties.. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 540-552.	2.3	73
79	Electromagnetic scattering by a morphologically complex object: Fundamental concepts and common misconceptions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 671-692.	2.3	71
80	On the concept of random orientation in far-field electromagnetic scattering by nonspherical particles. <i>Optics Letters</i> , 2017, 42, 494.	3.3	71
81	Satellite retrieval of aerosol properties over the ocean using measurements of reflected sunlight: Effect of instrumental errors and aerosol absorption. <i>Journal of Geophysical Research</i> , 1997, 102, 13543-13553.	3.3	69
82	Scattering matrix of quartz aerosols: comparison and synthesis of laboratory and Lorenzâ€™Mie results. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 79-80, 911-920.	2.3	68
83	Scattering and radiative properties of semi-external versus external mixtures of different aerosol types. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 88, 139-147.	2.3	67
84	Effect of ice crystal shape and effective size on snow bidirectional reflectance. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 457-469.	2.3	67
85	Light scattering in a finite multi-particle system. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 2195-2206.	2.3	65
86	Does the Maddenâ€™Julian Oscillation influence aerosol variability?. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	63
87	Reflection models for soil and vegetation surfaces from multiple-viewing angle photopolarimetric measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 529-539.	2.3	61
88	Retrieval of aerosol microphysical properties from AERONET photopolarimetric measurements: 2. A new research algorithm and case demonstration. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7079-7098.	3.3	61
89	Light scattering by randomly oriented bispheres. <i>Optics Letters</i> , 1994, 19, 1604.	3.3	59
90	Numerically exact computer simulations of light scattering by densely packed, random particulate media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2068-2078.	2.3	59

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91	T-matrix modeling of linear depolarization by morphologically complex soot and soot-containing aerosols. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 123, 135-144.	2.3	59
92	Direct simulation of multiple scattering by discrete random media illuminated by Gaussian beams. <i>Physical Review A</i> , 2011, 83, .	2.5	57
93	Toward unified satellite climatology of aerosol properties: Direct comparisons of advanced level 2 aerosol products. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 2376-2385.	2.3	56
94	“Independent” and “dependent” scattering by particles in a multi-particle group. <i>OSA Continuum</i> , 2018, 1, 243.	1.8	56
95	Electromagnetic scattering by a fixed finite object embedded in an absorbing medium. <i>Optics Express</i> , 2007, 15, 13188.	3.4	55
96	Comprehensive T-matrix reference database: A 2007–2009 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 650-658.	2.3	55
97	A numerical combination of extended boundary condition method and invariant imbedding method applied to light scattering by large spheroids and cylinders. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 123, 17-22.	2.3	54
98	Scattering and Radiative Properties of Morphologically Complex Carbonaceous Aerosols: A Systematic Modeling Study. <i>Remote Sensing</i> , 2018, 10, 1634.	4.0	54
99	Scattering properties of needlelike and platelike ice spheroids with moderate size parameters. <i>Applied Optics</i> , 2000, 39, 5052.	2.1	52
100	Single scattering by a small volume element. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 71.	1.5	52
101	Toward unified satellite climatology of aerosol properties: What do fully compatible MODIS and MISR aerosol pixels tell us?. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 402-408.	2.3	51
102	Radiative transfer theory verified by controlled laboratory experiments. <i>Optics Letters</i> , 2013, 38, 3522.	3.3	51
103	Radiation force caused by scattering, absorption, and emission of light by nonspherical particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 70, 811-816.	2.3	49
104	Comprehensive T-matrix reference database: A 2006–07 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1447-1460.	2.3	49
105	Consistency of global satellite-derived aerosol and cloud data sets with recent brightening observations. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	49
106	Retrieving the effective radius of Saharan dust coarse mode from AIRS. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	47
107	Conditions of applicability of the single-scattering approximation. <i>Optics Express</i> , 2007, 15, 7522.	3.4	47
108	Spectral signature of ice clouds in the far-infrared region: Single-scattering calculations and radiative sensitivity study. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	46

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109	Coherent backscattering of light by a layer of discrete random medium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 86, 161-180.	2.3	46
110	Gustav Mie and the Evolving Discipline of Electromagnetic Scattering by Particles. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 1853-1862.	3.3	46
111	Directional radiometry and radiative transfer: The convoluted path from centuries-old phenomenology to physical optics. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 4-33.	2.3	45
112	Applicability of the effective-medium approximation to heterogeneous aerosol particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 178, 284-294.	2.3	45
113	T-matrix method and its applications to electromagnetic scattering by particles: A current perspective. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 1700-1703.	2.3	44
114	Far-field Lorenzâ€Mie scattering in an absorbing host medium: Theoretical formalism and FORTRAN program. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 205, 241-252.	2.3	44
115	Weak localization of electromagnetic waves and opposition phenomena exhibited by high-albedo atmosphereless solar system objects. <i>Applied Optics</i> , 2006, 45, 4459.	2.1	43
116	Optics of water cloud droplets mixed with black-carbon aerosols. <i>Optics Letters</i> , 2014, 39, 2607.	3.3	43
117	Aerosol radiative forcing and the accuracy of satellite aerosol optical depth retrieval. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	42
118	Limits on climate sensitivity derived from recent satellite and surface observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	42
119	Aerosol polarimetry sensor for the Glory Mission. , 2007, , .		42
120	Linear depolarization of lidar returns by aged smoke particles. <i>Applied Optics</i> , 2016, 55, 9968.	2.1	42
121	Diffuse and coherent backscattering by discrete random mediaâ€”I. Radar reflectivity, polarization ratios, and enhancement factors for a half-space of polydisperse, nonabsorbing and absorbing spherical particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1996, 56, 673-702.	2.3	41
122	Electromagnetic scattering by randomly oriented bispheres: Comparison of theory and experiment and benchmark calculations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1996, 55, 683-694.	2.3	40
123	Constraints on PSC particle microphysics derived from lidar observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 70, 817-831.	2.3	40
124	Comprehensive thematic T-matrix reference database: A 2013â€2014 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 349-354.	2.3	40
125	Rainbow Fourier transform. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2521-2535.	2.3	39
126	T-Matrix Method and Its Applications. , 2000, , 147-172.		39

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127	Incorporation of physical optics effects and computation of the Legendre expansion for ray-tracing phase functions involving I-function transmission. <i>Journal of Geophysical Research</i> , 1998, 103, 1799-1805.	3.3	37
128	Photometric and Polarimetric Opposition Phenomena Exhibited by Solar System Bodies. , 2002, , 191-224.		37
129	Scale invariance rule in electromagnetic scattering. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 101, 411-415.	2.3	37
130	Multiple scattering by particles embedded in an absorbing medium. 2. Radiative transfer equation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 2386-2390.	2.3	37
131	Multiple scattering by particles embedded in an absorbing medium. 1. Foldy's equations, order-of-scattering expansion, and coherent field. <i>Optics Express</i> , 2008, 16, 2288.	3.4	37
132	Morphology-dependent resonances of nearly spherical particles in random orientation. <i>Applied Optics</i> , 2003, 42, 5551.	2.1	35
133	Regional advanced very high resolution radiometer-derived climatology of aerosol optical thickness and size. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	35
134	ON THE CONVERGENCE OF NUMERICAL COMPUTATIONS FOR BOTH EXACT AND APPROXIMATE SOLUTIONS FOR ELECTROMAGNETIC SCATTERING BY NONSPHERICAL DIELECTRIC PARTICLES (INVITED REVIEW). <i>Progress in Electromagnetics Research</i> , 2019, 164, 27-61.	4.4	34
135	The effect of black carbon on scattering and absorption of solar radiation by cloud droplets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002, 74, 195-204.	2.3	33
136	Global validation of two-channel AVHRR aerosol optical thickness retrievals over the oceans. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 88, 97-109.	2.3	33
137	Far-field approximation in electromagnetic scattering. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 268-276.	2.3	33
138	Approximate calculation of coherent backscattering for semi-infinite discrete random media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 139-145.	2.3	32
139	On definition and measurement of extinction cross section. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 323-327.	2.3	32
140	Directional radiometry and radiative transfer: A new paradigm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2079-2094.	2.3	32
141	Comprehensive T-matrix reference database: A 2012-2013 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 123, 145-152.	2.3	32
142	Direct demonstration of the concept of unrestricted effective-medium approximation. <i>Optics Letters</i> , 2014, 39, 3935.	3.3	32
143	Coherent backscattering by two-sphere clusters. <i>Optics Letters</i> , 1996, 21, 623.	3.3	31
144	Comprehensive thematic T-matrix reference database: A 2015-2017 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 240-246.	2.3	31

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145	Volume integral equation for electromagnetic scattering: Rigorous derivation and analysis for a set of multilayered particles with piecewise-smooth boundaries in a passive host medium. <i>Physical Review A</i> , 2018, 97, .	2.5	31
146	Global two-channel AVHRR aerosol climatology: effects of stratospheric aerosols and preliminary comparisons with MODIS and MISR retrievals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 88, 47-59.	2.3	30
147	Weak localization of electromagnetic waves by densely packed many-particle groups: Exact 3D results. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 106, 616-621.	2.3	30
148	Azimuthal asymmetry of the coherent backscattering cone: Theoretical results. <i>Physical Review A</i> , 2009, 80, .	2.5	30
149	The electromagnetic optical theorem revisited. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 101, 404-410.	2.3	29
150	Poynting's Stokes tensor and radiative transfer in discrete random media: the microphysical paradigm. <i>Optics Express</i> , 2010, 18, 19770.	3.4	29
151	Microwave polarized signatures generated within cloud systems: Special Sensor Microwave Imager (SSM/I) observations interpreted with radiative transfer simulations. <i>Journal of Geophysical Research</i> , 2001, 106, 28243-28258.	3.3	28
152	Assessing Goddard Institute for Space Studies ModelE aerosol climatology using satellite and ground-based measurements: A comparison study. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	28
153	Detecting superâ€thin clouds with polarized sunlight. <i>Geophysical Research Letters</i> , 2014, 41, 688-693.	4.0	28
154	Comprehensive thematic T-matrix reference database: A 2014â€2015 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 178, 276-283.	2.3	28
155	Comprehensive thematic T-matrix reference database: a 2017â€2019 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 242, 106692.	2.3	28
156	Microphysical approach to polarized radiative transfer: extension to the case of an external observation point. <i>Applied Optics</i> , 2003, 42, 4963.	2.1	27
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