

Michael I Mishchenko

List of Publications by Year in descending order

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277
papers

20,429
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10389

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297
times ranked

8885
citing authors

#	ARTICLE	IF	CITATIONS
1	Scattering by relatively small oblate spheroidal drops of water in the rainbow region: T-matrix results and geometric interpretation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 283, 108142.	2.3	2
2	Applying orbital multi-angle photopolarimetric observations to study properties of aerosols in the Earth's atmosphere: Implications of measurements in the 1.378 μm spectral channel to retrieve microphysical characteristics and composition of stratospheric aerosols. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 261, 107483.	2.3	2
3	Comprehensive thematic T-matrix reference database: a 2017–2019 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 242, 106692.	2.3	28
4	Co- and counter-propagating wave effects in an absorbing medium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 242, 106688.	2.3	6
5	An overview of the null-field method. I: Formulation and basic results. <i>Physics Open</i> , 2020, 5, 100020.	1.5	2
6	Electromagnetic scattering by discrete random media illuminated by a Gaussian beam I: Derivation of the radiative transfer equation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 256, 107301.	2.3	3
7	Spectrally dependent linear depolarization and lidar ratios for nonspherical smoke aerosols. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 248, 106953.	2.3	18
8	An overview of the null-field method. II: Convergence and numerical stability. <i>Physics Open</i> , 2020, 3, 100019.	1.5	3
9	Identify the limits of geometric optics ray tracing by numerically solving the vector Kirchhoff integral. <i>Optics Express</i> , 2020, 28, 10670.	3.4	5
10	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
11	Electromagnetic scattering by discrete random media. III: The vector radiative transfer equation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 236, 106564.	2.3	1
12	Electromagnetic scattering by discrete random media. IV: Coherent backscattering. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 236, 106565.	2.3	3
13	Electromagnetic scattering by discrete random media. II: The coherent field. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 230, 86-105.	2.3	6
14	Electromagnetic scattering by discrete random media. I: The dispersion equation and the configuration-averaged exciting field. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 230, 282-303.	2.3	5
15	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
16	An overview of methods for deriving the radiative transfer theory from the Maxwell equations. II: Approach based on the Dyson and Bethe–Salpeter equations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 224, 25-36.	2.3	8
17	Multiple scattering of polarized light by particles in an absorbing medium. <i>Applied Optics</i> , 2019, 58, 4871.	1.8	8
18	Modeling study of scattering and absorption properties of tar-ball aggregates. <i>Applied Optics</i> , 2019, 58, 8648.	1.8	4

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19	Retrieval of volcanic and man-made stratospheric aerosols from orbital polarimetric measurements. Optics Express, 2019, 27, A158.	3.4	3
20	Additivity of integral optical cross sections for a fixed tenuous multi-particle group. Optics Letters, 2019, 44, 419.	3.3	11
21	Scattering of a damped inhomogeneous plane wave by a particle in a weakly absorbing medium. OSA Continuum, 2019, 2, 2362.	1.8	4
22	Plasmon resonances of metal nanoparticles in an absorbing medium. OSA Continuum, 2019, 2, 3415.	1.8	12
23	On the Convergence of Numerical Computations for Both Exact and Approximate Solutions for Electromagnetic Scattering by Nonspherical Dielectric Particles. Progress in Electromagnetics Research, 2019, 164, 27-61.	4.4	6
24	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. Physical Review A, 2018, 97, .	2.5	31
25	The opposition effect in Saturn's main rings as seen by Cassini ISS: 4. Correlations of the surge morphology with surface albedos and VIMS spectral properties. Icarus, 2018, 305, 324-349.	2.5	4
26	Impressed sources and fields in the volume-integral-equation formulation of electromagnetic scattering by a finite object: A tutorial. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 214, 158-167.	2.3	18
27	Scattering and extinction by spherical particles immersed in an absorbing host medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 211, 179-187.	2.3	24
28	Retrieval of microphysical characteristics of particles in atmospheres of distant comets from ground-based polarimetry. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 205, 80-90.	2.3	18
29	Far-field Lorenz's "Mie scattering in an absorbing host medium: Theoretical formalism and FORTRAN program. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 205, 241-252.	2.3	44
30	Scattering and Radiative Properties of Morphologically Complex Carbonaceous Aerosols: A Systematic Modeling Study. Remote Sensing, 2018, 10, 1634.	4.0	54
31	Overview of methods for deriving the radiative transfer theory from the Maxwell equations. I: Approach based on the far-field Foldy equations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 220, 123-139.	2.3	9
32	"Independent" and "dependent" scattering by particles in a multi-particle group. OSA Continuum, 2018, 1, 243.	1.8	56
33	Preface: Electromagnetic and light scattering by nonspherical particles XVII. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 221, A1-A3.	2.3	5
34	Radiative Transfer Modeling of Spectra of Planetary Regoliths Using Cluster-Based Dense Packing Modifications. Journal of Geophysical Research E: Planets, 2018, 123, 1203-1220.	3.6	18
35	Far-field Lorenz's "Mie scattering in an absorbing host medium. II: Improved stability of the numerical algorithm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 274-277.	2.3	16
36	Radiative transfer in a discrete random medium adjacent to a half-space with a rough interface. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 218, 194-202.	2.3	1

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37	Addendum to "Impressed sources and fields in the volume-integral-equation formulation of electromagnetic scattering by a finite object: A tutorial" [J. Quant. Spectrosc. Radiat. Transfer 214 (2018) 158-167]. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 219, 105-107.	2.3	2
38	Electromagnetic scattering and emission by a fixed multi-particle object in local thermal equilibrium: General formalism. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 200, 137-145.	2.3	5
39	Comprehensive thematic T-matrix reference database: A 2015-2017 update. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 202, 240-246.	2.3	31
40	Electromagnetic scattering by spheroidal volumes of discrete random medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 200, 244-248.	2.3	1
41	Information content of bistatic lidar observations of aerosols from space. Optics Express, 2017, 25, A134.	3.4	16
42	On Babinet's principle and diffraction associated with an arbitrary particle. Optics Letters, 2017, 42, 5026.	3.3	10
43	On the concept of random orientation in far-field electromagnetic scattering by nonspherical particles. Optics Letters, 2017, 42, 494.	3.3	71
44	Extinction by a homogeneous spherical particle in an absorbing medium. Optics Letters, 2017, 42, 4873.	3.3	27
45	Linear depolarization of lidar returns by aged smoke particles. Applied Optics, 2016, 55, 9968.	2.1	42
46	Demonstration of numerical equivalence of ensemble and spectral averaging in electromagnetic scattering by random particulate media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 618.	1.5	5
47	Expansion of tabulated scattering matrices in generalized spherical functions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 183, 78-84.	2.3	5
48	Scattering of Gaussian beams by disordered particulate media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 183, 85-89.	2.3	6
49	First-principles definition and measurement of planetary electromagnetic-energy budget. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1126.	1.5	1
50	First-principles modeling of electromagnetic scattering by discrete and discretely heterogeneous random media. Physics Reports, 2016, 632, 1-75.	25.6	104
51	Multistatic aerosol-cloud lidar in space: A theoretical perspective. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 184, 180-192.	2.3	13
52	Comprehensive thematic T-matrix reference database: A 2014-2015 update. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 178, 276-283.	2.3	28
53	Applicability of the effective-medium approximation to heterogeneous aerosol particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 178, 284-294.	2.3	45
54	Electromagnetic and light scattering by nonspherical particles XV: Celebrating 150 years of Maxwell's electromagnetics. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 178, 1-4.	2.3	5

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55	Optics of water microdroplets with soot inclusions: Exact versus approximate results. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 178, 255-262.	2.3	13
56	Electromagnetic scattering by fully ordered and quasi-random rigid particulate samples. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 2144.	1.5	4
57	Empirical relationships between optical properties and equivalent diameters of fractal soot aggregates at 550 nm wavelength. <i>Optics Express</i> , 2015, 23, A1354.	3.4	15
58	Optical tunneling by arbitrary macroscopic three-dimensional objects. <i>Physical Review A</i> , 2015, 92, .	2.5	11
59	Measurement and modeling of electromagnetic scattering by particles and particle groups. , 2015, , 13-34.		5
60	Validation of Long-Term Global Aerosol Climatology Project Optical Thickness Retrievals Using AERONET and MODIS Data. <i>Remote Sensing</i> , 2015, 7, 12588-12605.	4.0	4
61	A persistent feature of multiple scattering of waves in the time-domain: A tutorial. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 162, 221-240.	2.3	8
62	Scattering properties of heterogeneous mineral particles with absorbing inclusions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 162, 89-94.	2.3	15
63	Topical issue on optical particle characterization and remote sensing of the atmosphere: Part II. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 153, 1-3.	2.3	3
64	Polarized bidirectional reflectance of optically thick sparse particulate layers: An efficient numerically exact radiative-transfer solution. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 156, 97-108.	2.3	25
65	Extension and statistical analysis of the GACP aerosol optical thickness record. <i>Atmospheric Research</i> , 2015, 164-165, 268-277.	4.1	4
66	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
67	Model-based estimation of sampling-caused uncertainty in aerosol remote sensing for climate research applications. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 2353-2363.	2.7	11
68	Morphology-dependent resonances of spherical droplets with numerous microscopic inclusions. <i>Optics Letters</i> , 2014, 39, 1701.	3.3	24
69	Optics of water cloud droplets mixed with black-carbon aerosols. <i>Optics Letters</i> , 2014, 39, 2607.	3.3	43
70	Detecting super-thin clouds with polarized sunlight. <i>Geophysical Research Letters</i> , 2014, 41, 688-693.	4.0	28
71	Effects of nonsphericity on the behavior of Lorenz-Mie resonances in scattering characteristics of liquid-cloud droplets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 227-234.	2.3	9
72	Comprehensive thematic T-matrix reference database: A 2013-2014 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 349-354.	2.3	40

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73	Direct demonstration of the concept of unrestricted effective-medium approximation. Optics Letters, 2014, 39, 3935.	3.3	32
74	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. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 510-528.	2.3	94
75	Directional radiometry and radiative transfer: The convoluted path from centuries-old phenomenology to physical optics. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 4-33.	2.3	45
76	Soot superaggregates from flaming wildfires and their direct radiative forcing. Scientific Reports, 2014, 4, 5508.	3.3	90
77	Multi-decadal aerosol variations from 1980 to 2009: a perspective from observations and a global model. Atmospheric Chemistry and Physics, 2014, 14, 3657-3690.	4.9	240
78	Radiative transfer theory verified by controlled laboratory experiments. Optics Letters, 2013, 38, 3522.	3.3	51
79	Statistical analysis of single-track instrument sampling in spaceborne aerosol remote sensing for climate research. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 121, 69-77.	2.3	5
80	Measurement of electromagnetic energy flow through a sparse particulate medium: A perspective. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 123, 122-134.	2.3	12
81	Efficient implementation of the invariant imbedding T-matrix method and the separation of variables method applied to large nonspherical inhomogeneous particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 116, 169-183.	2.3	146
82	T-matrix modeling of linear depolarization by morphologically complex soot and soot-containing aerosols. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 123, 135-144.	2.3	59
83	Comprehensive T-matrix reference database: A 2012–2013 update. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 123, 145-152.	2.3	32
84	Spectrally Consistent Scattering, Absorption, and Polarization Properties of Atmospheric Ice Crystals at Wavelengths from 0.2 to 100 μ m. Journals of the Atmospheric Sciences, 2013, 70, 330-347.	1.7	358
85	A numerical combination of extended boundary condition method and invariant imbedding method applied to light scattering by large spheroids and cylinders. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 123, 17-22.	2.3	54
86	125 years of radiative transfer: Enduring triumphs and persisting misconceptions. AIP Conference Proceedings, 2013, , .	0.4	9
87	Characterization of cloud microphysical parameters using airborne measurements by the research scanning polarimeter. , 2013, , .		2
88	Absorption and scattering by molecules and particles. , 2013, , 13-51.		5
89	COHERENT BACKSCATTERING VERIFIED NUMERICALLY FOR A FINITE VOLUME OF SPHERICAL PARTICLES. Astrophysical Journal, 2012, 760, 118.	4.5	81
90	Adhesion of mineral and soot aerosols can strongly affect their scattering and absorption properties. Optics Letters, 2012, 37, 704.	3.3	23

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91	Analysis of fine-mode aerosol retrieval capabilities by different passive remote sensing instrument designs. <i>Optics Express</i> , 2012, 20, 21457.	3.4	96
92	Scattering and absorption properties of polydisperse wavelength-sized particles covered with much smaller grains. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2351-2355.	2.3	17
93	Rainbow Fourier transform. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2521-2535.	2.3	39
94	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
95	Editorial: The Poynting Award on Radiative Transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 499.	2.3	0
96	Aerosol retrievals from channel-1 and -2 AVHRR radiances: Long-term trends updated and revisited. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1974-1980.	2.3	24
97	Coherent backscattering in the cross-polarized channel. <i>Physical Review A</i> , 2011, 83, .	2.5	11
98	Direct simulation of multiple scattering by discrete random media illuminated by Gaussian beams. <i>Physical Review A</i> , 2011, 83, .	2.5	57
99	Light scattering by wavelength-sized particles "dusted" with subwavelength-sized grains. <i>Optics Letters</i> , 2011, 36, 337.	3.3	16
100	Coherent backscattering by polydisperse discrete random media: exact T-matrix results. <i>Optics Letters</i> , 2011, 36, 4350.	3.3	6
101	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
102	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
103	Modeling variations in near-infrared spectra caused by the coherent backscattering effect. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2175-2181.	2.3	13
104	Directional radiometry and radiative transfer: A new paradigm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2079-2094.	2.3	32
105	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
106	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
107	Numerical simulations of single and multiple scattering by fractal ice clusters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1864-1870.	2.3	12
108	Dependence of extinction cross-section on incident polarization state and particle orientation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2035-2039.	2.3	18

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109	Semi-empirical BRDF and BPDF models applied to the problem of aerosol retrievals over land: testing on airborne data and implications for modeling of top-of-atmosphere measurements. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 313-340.	0.2	5
110	Opposition optical phenomena in planetary astrophysics: observational results. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 409-436.	0.2	2
111	Astrophysical polarimetry in Ukraine. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 233-260.	0.2	1
112	Ground performance measurements of the Glory Aerosol Polarimetry Sensor. Proceedings of SPIE, 2010, , .	0.8	20
113	Accurate monitoring of terrestrial aerosols and total solar irradiance: the NASA Glory mission. , 2010, , .		4
114	Reflection models for soil and vegetation surfaces from multiple-viewing angle photopolarimetric measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 529-539.	2.3	61
115	Comprehensive T-matrix reference database: A 2007â€“2009 update. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 650-658.	2.3	55
116	Toward unified satellite climatology of aerosol properties.. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 540-552.	2.3	73
117	Coherent backscattering: Conceptions and misconceptions (reply to comments by Bruce W. Hapke and) Tj ETQq1 1 0.784314 rgBT / 0 2.3 18	2.3	18
118	T-matrix method and its applications to electromagnetic scattering by particles: A current perspective. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1700-1703.	2.3	44
119	Accurate monitoring of terrestrial aerosols and total solar irradiance: The NASA Glory mission. , 2010, , .		1
120	Consistency of global satelliteâ€“derived aerosol and cloud data sets with recent brightening observations. Geophysical Research Letters, 2010, 37, .	4.0	49
121	Poyntingâ€“Stokes tensor and radiative transfer in discrete random media: the microphysical paradigm. Optics Express, 2010, 18, 19770.	3.4	29
122	DIRECT SOLUTIONS OF THE MAXWELL EQUATIONS EXPLAIN OPPOSITION PHENOMENA OBSERVED FOR HIGH-ALBEDO SOLAR SYSTEM OBJECTS. Astrophysical Journal, 2009, 705, L118-L122.	4.5	77
123	Pixelâ€“level analysis of MODIS and MISR aerosol products. , 2009, , .		0
124	Gustav Mie and the evolving subject of light scattering by particles. AIP Conference Proceedings, 2009, , .	0.4	2
125	Approximate calculation of coherent backscattering for semi-infinite discrete random media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 139-145.	2.3	32
126	On definition and measurement of extinction cross section. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 323-327.	2.3	32

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127	Electromagnetic scattering by nonspherical particles: A tutorial review. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 808-832.	2.3	103
128	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
129	Radar polarimetry of Saturn's rings: Modeling ring particles as fractal aggregates built of small ice monomers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1706-1712.	2.3	9
130	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
131	Erratum to "Toward unified satellite climatology of aerosol properties: What do fully compatible MODIS and MISR aerosol pixels tell us?" [Journal of Quantitative Spectroscopy and Radiative Transfer 110 (2009) 402-408]. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1962-1963.	2.3	3
132	Electromagnetic scattering by densely packed particulate ice at radar wavelengths: exact theoretical results and remote-sensing implications. <i>Applied Optics</i> , 2009, 48, 2421.	2.1	19
133	Azimuthal asymmetry of the coherent backscattering cone: Theoretical results. <i>Physical Review A</i> , 2009, 80, .	2.5	30
134	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
135	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
136	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
137	The Tenth Electromagnetic and Light Scattering Conference. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1335-1337.	2.3	13
138	Light scattering in a finite multi-particle system. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 2195-2206.	2.3	65
139	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
140	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
141	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
142	Photopolarimetry of planetary atmospheres: what observational data are essential for a unique retrieval of aerosol microphysics?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 384, 64-70.	4.4	22
143	Weak localization of electromagnetic waves and radar polarimetry of Saturn's rings. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 389, 1665-1674.	4.4	8
144	Accuracy of the scalar approximation in computations of diffuse and coherent backscattering by discrete random media. <i>Physical Review A</i> , 2008, 78, .	2.5	9

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145	Does the Madden-Julian Oscillation influence aerosol variability?. Journal of Geophysical Research, 2008, 113, .	3.3	63
146	Broadband electromagnetic scattering by particles. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2893.	1.5	5
147	Multiple scattering by particles embedded in an absorbing medium. 1. Foldy's equations, order-of-scattering expansion, and coherent field. Optics Express, 2008, 16, 2288.	3.4	37
148	Multiple scattering, radiative transfer, and weak localization in discrete random media: Unified microphysical approach. Reviews of Geophysics, 2008, 46, .	23.0	102
149	Prediction of Thermal Emission and Exchange Among Neighboring Wavelength-Sized Spheres. Journal of Heat Transfer, 2008, 130, .	2.1	13
150	Gustav Mie and the Evolving Discipline of Electromagnetic Scattering by Particles. Bulletin of the American Meteorological Society, 2008, 89, 1853-1862.	3.3	46
151	Accurate Monitoring of Terrestrial Aerosols and Total Solar Irradiance: Introducing the Glory Mission. Bulletin of the American Meteorological Society, 2007, 88, 677-692.	3.3	277
152	Long-Term Satellite Record Reveals Likely Recent Aerosol Trend. Science, 2007, 315, 1543-1543.	12.6	206
153	Limits on climate sensitivity derived from recent satellite and surface observations. Journal of Geophysical Research, 2007, 112, .	3.3	42
154	Aerosol polarimetry sensor for the Glory Mission. , 2007, , .		42
155	Multiple scattering by random particulate media: exact 3D results. Optics Express, 2007, 15, 2822.	3.4	132
156	Satellite remote sensing reveals regional tropospheric aerosol trends. Optics Express, 2007, 15, 7423.	3.4	101
157	Conditions of applicability of the single-scattering approximation. Optics Express, 2007, 15, 7522.	3.4	47
158	Effects of absorption on multiple scattering by random particulate media: exact results. Optics Express, 2007, 15, 13182.	3.4	23
159	Electromagnetic scattering by a fixed finite object embedded in an absorbing medium. Optics Express, 2007, 15, 13188.	3.4	55
160	Modeling of the scattering and radiative properties of nonspherical dust-like aerosols. Journal of Aerosol Science, 2007, 38, 995-1014.	3.8	180
161	Diffuse and coherent backscattering of polarized light: Polarization ratios for a discrete random medium composed of nonspherical particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 21-32.	2.3	8
162	Past, present, and future of global aerosol climatologies derived from satellite observations: A perspective. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 325-347.	2.3	117

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163	Scattering and radiative properties of complex soot and soot-containing aggregate particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 262-273.	2.3	135
164	Comprehensive T-matrix reference database: A 2004-2006 update. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 304-324.	2.3	74
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