

Brian Cairns

List of Publications by Year in descending order

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145
papers

6,765
citations

76196

40
h-index

74018

75
g-index

147
all docs

147
docs citations

147
times ranked

4702
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Eddy Simulations of Marine Boundary Layer Clouds Associated with Cold-Air Outbreaks during the ACTIVATE Campaign. Part I: Case Setup and Sensitivities to Large-Scale Forcings. <i>Journals of the Atmospheric Sciences</i> , 2022, 79, 73-100.	0.6	8
2	Optical properties of morphologically complex black carbon aerosols: Effects of coatings. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 281, 108080.	1.1	8
3	An evaluation of the liquid cloud droplet effective radius derived from MODIS, airborne remote sensing, and in situ measurements from CAMP<sup>2</sup</sup>Ex. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8259-8285.	1.9	7
4	Atmospheric correction over the ocean for hyperspectral radiometers using multi-angle polarimetric retrievals. <i>Optics Express</i> , 2021, 29, 4504.	1.7	10
5	An overview of the ORACLES (ObseRvations of Aerosols above CLouds and their intEractionS) project: aerosolâ€cloudâ€radiation interactions in the southeast Atlantic basin. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1507-1563.	1.9	97
6	An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coast â€ Part I: Analysis of Aerosols, Gases, and Wet Deposition Chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032592.	1.2	18
7	Joint cloud water path and rainwater path retrievals from airborne ORACLES observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5513-5532.	1.9	4
8	A Combined Lidar-Polarimeter Inversion Approach for Aerosol Remote Sensing Over Ocean. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	9
9	Inference of Precipitation in Warm Stratiform Clouds Using Remotely Sensed Observations of the Cloud Top Droplet Size Distribution. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092547.	1.5	5
10	Efficient multi-angle polarimetric inversion of aerosols and ocean color powered by a deep neural network forward model. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4083-4110.	1.2	27
11	Simultaneous Aerosol and Ocean Properties From the PolCube CubeSat Polarimeter. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	5
12	Evaluation of satellite retrievals of liquid clouds from the GOES-13 imager and MODIS over the midlatitude North Atlantic during the NAAMES campaign. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6633-6646.	1.2	16
13	Application of Radon Transform to Multi-Angle Measurements Made by the Research Scanning Polarimeter: A New Approach to Cloud Tomography. Part I: Theory and Tests on Simulated Data. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	3
14	Adaptive Data Screening for Multi-Angle Polarimetric Aerosol and Ocean Color Remote Sensing Accelerated by Deep Learning. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	13
15	Global Statistics of Ice Microphysical and Optical Properties at Tops of Optically Thick Ice Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031811.	1.2	16
16	Atmospheric Research Over the Western North Atlantic Ocean Region and North American East Coast: A Review of Past Work and Challenges Ahead. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031626.	1.2	35
17	Aerosol retrievals from different polarimeters during the ACEPOL campaign using a common retrieval algorithm. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 553-573.	1.2	28
18	Observations of Aerosolâ€Cloud Interactions During the North Atlantic Aerosol and Marine Ecosystem Study. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085851.	1.5	6

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19	Vertical profiles of droplet size distributions derived from cloud-side observations by the research scanning polarimeter: Tests on simulated data. <i>Atmospheric Research</i> , 2020, 239, 104924.	1.8	10
20	A Flexible Parameterization for Shortwave and Longwave Optical Properties of Ice Crystals and Derived Bulk Optical Properties for Climate Models. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 1245-1260.	0.6	6
21	Mid-level clouds are frequent above the southeast Atlantic stratocumulus clouds. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11025-11043.	1.9	19
22	Constraining the Twomey effect from satellite observations: issues and perspectives. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15079-15099.	1.9	49
23	Low-level liquid cloud properties during ORACLES retrieved using airborne polarimetric measurements and a neural network algorithm. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3447-3470.	1.2	5
24	Inversion of multiangular polarimetric measurements from the ACEPOL campaign: an application of improving aerosol property and hyperspectral ocean color retrievals. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3939-3956.	1.2	17
25	The Aerosol Characterization from Polarimeter and Lidar (ACEPOL) airborne field campaign. <i>Earth System Science Data</i> , 2020, 12, 2183-2208.	3.7	10
26	Going Beyond Standard Ocean Color Observations: Lidar and Polarimetry. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	80
27	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	98
28	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	37
29	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	31
30	Inversion of multiangular polarimetric measurements over open and coastal ocean waters: a joint retrieval algorithm for aerosol and water-leaving radiance properties. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3921-3941.	1.2	18
31	Polarimetric retrievals of cloud droplet number concentrations. <i>Remote Sensing of Environment</i> , 2019, 228, 227-240.	4.6	17
32	The Plankton, Aerosol, Cloud, Ocean Ecosystem Mission: Status, Science, Advances. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1775-1794.	1.7	199
33	Aerosol-Cloud-Meteorology Interaction Airborne Field Investigations: Using Lessons Learned from the U.S. West Coast in the Design of ACTIVATE off the U.S. East Coast. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1511-1528.	1.7	51
34	Polarimetric remote sensing of atmospheric aerosols: Instruments, methodologies, results, and perspectives. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 224, 474-511.	1.1	224
35	Remote sensing of the ocean surface refractive index via short-wave infrared polarimetry. <i>Remote Sensing of Environment</i> , 2019, 221, 14-23.	4.6	17
36	Intercomparison of airborne multi-angle polarimeter observations from the Polarimeter Definition Experiment. <i>Applied Optics</i> , 2019, 58, 650.	0.9	28

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37	SPEX airborne spectropolarimeter calibration and performance. <i>Applied Optics</i> , 2019, 58, 5695.	0.9	31
38	Retrieval of volcanic and man-made stratospheric aerosols from orbital polarimetric measurements. <i>Optics Express</i> , 2019, 27, A158.	1.7	3
39	In-flight validation of SPEX airborne spectro-polarimeter onboard NASA's research aircraft ER-2, , .		6
40	Airborne and shipborne polarimetric measurements over open ocean and coastal waters: Intercomparisons and implications for spaceborne observations. <i>Remote Sensing of Environment</i> , 2018, 206, 375-390.	4.6	24
41	Retrievals of cloud droplet size from the research scanning polarimeter data: Validation using in situ measurements. <i>Remote Sensing of Environment</i> , 2018, 210, 76-95.	4.6	26
42	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. <i>Reviews of Geophysics</i> , 2018, 56, 409-453.	9.0	185
43	Coupled Retrieval of Liquid Water Cloud and Above-Cloud Aerosol Properties Using the Airborne Multiangle SpectroPolarimetric Imager (AirMSPI). <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3175-3204.	1.2	28
44	Development of neural network retrievals of liquid cloud properties from multi-angle polarimetric observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 220, 39-51.	1.1	10
45	Retrieval of aerosol properties and water-leaving reflectance from multi-angular polarimetric measurements over coastal waters. <i>Optics Express</i> , 2018, 26, 8968.	1.7	44
46	Calibration and validation of Airborne Multiangle SpectroPolarimetric Imager (AirMSPI) polarization measurements. <i>Applied Optics</i> , 2018, 57, 4499.	0.9	30
47	Combined neural network/Phillips's Tikhonov approach to aerosol retrievals over land from the NASA Research Scanning Polarimeter. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4235-4252.	1.2	28
48	Remote sensing of multiple cloud layer heights using multi-angular measurements. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2361-2375.	1.2	21
49	Imager-to-radiometer in-flight cross calibration: RSP radiometric comparison with airborne and satellite sensors. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 955-962.	1.2	5
50	Passive remote sensing of aerosol layer height using near-UV multiangle polarization measurements. <i>Geophysical Research Letters</i> , 2016, 43, 8783-8790.	1.5	50
51	First-principles definition and measurement of planetary electromagnetic-energy budget. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 1126.	0.8	1
52	Polarized view of supercooled liquid water clouds. <i>Remote Sensing of Environment</i> , 2016, 181, 96-110.	4.6	23
53	First-principles modeling of electromagnetic scattering by discrete and discretely heterogeneous random media. <i>Physics Reports</i> , 2016, 632, 1-75.	10.3	104
54	The Two-Column Aerosol Project: Phase I Overview and impact of elevated aerosol layers on aerosol optical depth. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 336-361.	1.2	33

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55	Multistatic aerosol cloud lidar in space: A theoretical perspective. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 184, 180-192.	1.1	13
56	Vertical variation of ice particle size in convective cloud tops. <i>Geophysical Research Letters</i> , 2016, 43, 4586-4593.	1.5	28
57	On Averaging Aspect Ratios and Distortion Parameters over Ice Crystal Population Ensembles for Estimating Effective Scattering Asymmetry Parameters. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 775-787.	0.6	10
58	New Statistical Model for Variability of Aerosol Optical Thickness: Theory and Application to MODIS Data over Ocean*. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 821-837.	0.6	13
59	Derivation of cumulus cloud dimensions and shape from the airborne measurements by the Research Scanning Polarimeter. <i>Remote Sensing of Environment</i> , 2016, 177, 144-152.	4.6	12
60	Extension and statistical analysis of the GACP aerosol optical thickness record. <i>Atmospheric Research</i> , 2015, 164-165, 268-277.	1.8	4
61	Liquid water cloud properties during the Polarimeter Definition Experiment (PODEX). <i>Remote Sensing of Environment</i> , 2015, 169, 20-36.	4.6	27
62	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.	1.0	11
63	A Flexible Parameterization for Shortwave Optical Properties of Ice Crystals*. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 1763-1782.	0.6	42
64	Optics of water cloud droplets mixed with black-carbon aerosols. <i>Optics Letters</i> , 2014, 39, 2607.	1.7	43
65	Adjoint methods for adjusting three-dimensional atmosphere and surface properties to fit multi-angle/multi-pixel polarimetric measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 144, 68-85.	1.1	22
66	Variation of ice crystal size, shape, and asymmetry parameter in tops of tropical deep convective clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,809-11,825.	1.2	40
67	Statistical analysis of single-track instrument sampling in spaceborne aerosol remote sensing for climate research. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 121, 69-77.	1.1	5
68	Uncertainty and interpretation of aerosol remote sensing due to vertical inhomogeneity. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 114, 91-100.	1.1	9
69	Characterization of cloud microphysical parameters using airborne measurements by the research scanning polarimeter. , 2013, , .		2
70	Recent instruments and algorithms for passive shortwave remote sensing. , 2013, , 185-222.		0
71	Evaluation of Hydrometeor Phase and Ice Properties in Cloud-Resolving Model Simulations of Tropical Deep Convection Using Radiance and Polarization Measurements. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 3290-3314.	0.6	39
72	Analysis of fine-mode aerosol retrieval capabilities by different passive remote sensing instrument designs. <i>Optics Express</i> , 2012, 20, 21457.	1.7	96

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73	Rainbow Fourier transform. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2521-2535.	1.1	39
74	Model for land surface reflectance treatment: Physical derivation, application for bare soil and evaluation on airborne and satellite measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2023-2039.	1.1	21
75	Sensitivity of multiangle, multispectral polarimetric remote sensing over open oceans to water-leaving radiance: Analyses of RSP data acquired during the MILAGRO campaign. Remote Sensing of Environment, 2012, 118, 284-308.	4.6	83
76	Polarimetric retrievals of surface and cirrus clouds properties in the region affected by the Deepwater Horizon oil spill. Remote Sensing of Environment, 2012, 121, 389-403.	4.6	41
77	Accuracy assessments of cloud droplet size retrievals from polarized reflectance measurements by the research scanning polarimeter. Remote Sensing of Environment, 2012, 125, 92-111.	4.6	90
78	Iterative atmospheric correction scheme and the polarization color of alpine snow. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 789-804.	1.1	17
79	Aerosol retrievals from channel-1 and -2 AVHRR radiances: Long-term trends updated and revisited. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1974-1980.	1.1	24
80	Electromagnetic scattering by a morphologically complex object: Fundamental concepts and common misconceptions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 671-692.	1.1	71
81	Models for surface reflection of radiance and polarized radiance: Comparison with airborne multi-angle photopolarimetric measurements and implications for modeling top-of-atmosphere measurements. Remote Sensing of Environment, 2011, 115, 781-792.	4.6	119
82	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.	0.1	5
83	Ground performance measurements of the Glory Aerosol Polarimetry Sensor. Proceedings of SPIE, 2010, , .	0.8	20
84	Accurate monitoring of terrestrial aerosols and total solar irradiance: the NASA Glory mission. , 2010, , .		4
85	Reflection models for soil and vegetation surfaces from multiple-viewing angle photopolarimetric measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 529-539.	1.1	61
86	Toward unified satellite climatology of aerosol properties.. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 540-552.	1.1	73
87	Accurate monitoring of terrestrial aerosols and total solar irradiance: The NASA Glory mission. , 2010, , .		1
88	Pixel-level analysis of MODIS and MISR aerosol products. , 2009, , .		0
89	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, 2009, 110, 402-408.	1.1	51
90	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]. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1962-1963.	1.1	3

#	ARTICLE	IF	CITATIONS
91	Polarimetric remote sensing of aerosols over land surfaces. , 2009, , 295-325.		16
92	Columnar water vapor retrievals from multifilter rotating shadowband radiometer data. Journal of Geophysical Research, 2009, 114, .	3.3	67
93	Characterization of atmospheric aerosols using MFRSR measurements. Journal of Geophysical Research, 2008, 113, .	3.3	28
94	Surface BRDF estimation from an aircraft compared to MODIS and ground estimates at the Southern Great Plains site. Journal of Geophysical Research, 2008, 113, .	3.3	46
95	WindCam and MSPI: two cloud and aerosol instrument concepts derived from Terra/MISR heritage. Proceedings of SPIE, 2008, , .	0.8	6
96	Accurate Monitoring of Terrestrial Aerosols and Total Solar Irradiance: Introducing the Glory Mission. Bulletin of the American Meteorological Society, 2007, 88, 677-692.	1.7	277
97	Long-Term Satellite Record Reveals Likely Recent Aerosol Trend. Science, 2007, 315, 1543-1543.	6.0	206
98	Aerosol polarimetry sensor for the Glory Mission. , 2007, , .		42
99	Multiple scattering by random particulate media: exact 3D results. Optics Express, 2007, 15, 2822.	1.7	132
100	Dual-photoelastic-modulator-based polarimetric imaging concept for aerosol remote sensing. Applied Optics, 2007, 46, 8428.	2.1	109
101	Future Mission Concept for 3-D Remote Sensing of Aerosols from Low Earth Orbit. , 2007, , .		0
102	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.	1.1	117
103	Assessing Goddard Institute for Space Studies ModelE aerosol climatology using satellite and ground-based measurements: A comparison study. Journal of Geophysical Research, 2006, 111, .	3.3	28
104	Contribution of water-leaving radiances to multiangle, multispectral polarimetric observations over the open ocean: bio-optical model results for case 1 waters. Applied Optics, 2006, 45, 5542.	2.1	105
105	Remote sensing of absorbing aerosols and precipitable water vapor using MFRSR measurements. , 2006, , .		0
106	Modeling single-scattering properties of small cirrus particles by use of a size-shape distribution of ice spheroids and cylinders. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 101, 488-497.	1.1	22
107	Present-Day Atmospheric Simulations Using GISS ModelE: Comparison to In Situ, Satellite, and Reanalysis Data. Journal of Climate, 2006, 19, 153-192.	1.2	832
108	MODIS aerosol retrieval over urban areas. , 2005, , .		2

#	ARTICLE	IF	CITATIONS
109	Using multi-angle multispectral photo-polarimetry of the NASA Glory mission to constrain optical properties of aerosols and clouds: results from four field experiments. , 2005, 5978, 131.		14
110	Remote sensing of fine and coarse mode atmospheric aerosols using ground-based sun-photometry. , 2005, , .		0
111	Retrieval of Aerosol Scattering and Absorption Properties from Photopolarimetric Observations over the Ocean during the CLAMS Experiment. Journals of the Atmospheric Sciences, 2005, 62, 1093-1117.	0.6	115
112	An integrated multiangle, multispectral, and polarimetric imaging concept for aerosol remote sensing from space. , 2005, , .		30
113	Separation of fine and coarse aerosol modes in MFRSR data sets. Journal of Geophysical Research, 2005, 110, .	3.3	11
114	Monitoring of aerosol forcing of climate from space: analysis of measurement requirements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 88, 149-161.	1.1	211
115	Automated cloud screening algorithm for MFRSR data. Geophysical Research Letters, 2004, 31, .	1.5	68
116	Constraining aerosol single scattering albedos from multiangle multispectral photo-polarimetric observations over the ocean. , 2004, , .		2
117	Atmospheric correction of HyperSpecTIR measurements using the research scanning polarimeter. , 2004, , .		2
118	Scaling Properties of Aerosol Optical Thickness Retrieved from Ground-Based Measurements. Journals of the Atmospheric Sciences, 2004, 61, 1024-1039.	0.6	20
119	Automated algorithm for remote sensing of atmospheric aerosols and trace gases using MFRSR measurements. , 2004, , .		0
120	Airborne hyperspectral BRDF measurements using the HyperSpecTIR instrument. , 2004, , .		0
121	Aerosol retrieval over urban areas using spatial regression between V/NIR and MIR Hyperion channels. , 2004, , .		1
122	Surface optical properties measured by the airborne research scanning polarimeter during the CLAMS experiment. , 2004, , .		14
123	Research scanning polarimeter and airborne usage for remote sensing of aerosols. , 2003, 5158, 33.		48
124	Atmospheric aerosol and trace gas parameter derived from local MFRSR network: multi-instrument data fusion in comparison with satellite retrievals. , 2003, , .		3
125	<title>Accuracy versus speed: evaluation of tradeoffs in atmospheric correction methods</title>. , 2002, , .		1
126	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. Journals of the Atmospheric Sciences, 2002, 59, 262-278.	0.6	85

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127	Remote Sensing of Atmospheric Aerosols and Trace Gases by Means of Multifilter Rotating Shadowband Radiometer. Part II: Climatological Applications. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 544-566.	0.6	32
128	Implications of the Observed Mesoscale Variations of Clouds for the Earth's Radiation Budget. <i>Journal of Climate</i> , 2002, 15, 557-585.	1.2	78
129	Case Studies of Aerosol Retrievals over the Ocean from Multiangle, Multispectral Photopolarimetric Remote Sensing Data. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 383-397.	0.6	105
130	Remote Sensing of Atmospheric Aerosols and Trace Gases by Means of Multifilter Rotating Shadowband Radiometer. Part I: Retrieval Algorithm. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 524-543.	0.6	64
131	Derivation of 2D fields of aerosol and trace gases parameters by integrated analysis of multi-instrument MFRSR dataset from DOE ARM program CART site. , 2002, , .		2
132	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.	1.5	130
133	Reply to Comment on "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, 3277-3278.	1.5	1
134	<title>MFRSR-based climatologies of atmospheric aerosols, trace gases, and water vapor</title>. , 2001, 4168, 256.		4
135	Absorption within Inhomogeneous Clouds and Its Parameterization in General Circulation Models. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 700-714.	0.6	82
136	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
137	<title>Research Scanning Polarimeter: calibration and ground-based measurements</title>. , 1999, , .		125
138	Analysis of ground-based polarimetric sky radiance measurements. , 1997, , .		20
139	Polarization: ground-based upward-looking and aircraft/satellite-based downward-looking measurements. , 1997, 3220, 103.		9
140	The influence of inclusions on light scattering by large ice particles. <i>Journal of Geophysical Research</i> , 1996, 101, 23311-23316.	3.3	102
141	Monitoring changes of clouds. <i>Climatic Change</i> , 1995, 31, 305-347.	1.7	32
142	Inverse Problems with Quasihomogeneous Random Media Utilizing Scattered Pulses. <i>Journal of Modern Optics</i> , 1995, 42, 655-666.	0.6	16
143	Changes in the spectrum of light scattered by a moving diffuser plate. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1991, 8, 1922.	0.8	19
144	Comparison of the Born and the Rytov approximations for scattering on quasi-homogeneous media. <i>Optics Communications</i> , 1990, 74, 284-289.	1.0	5

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145	The instantaneous cross-spectral density of non-stationary wavefields. Optics Communications, 1987, 62, 215-218.	1.0	12