

Alexander Smirnov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148
papers

22,440
citations

58
h-index

149
g-index

163
ext. papers

24,936
ext. citations

4.5
avg, IF

6.03
L-index

#	Paper	IF	Citations
148	The Determination of Snow Albedo From Satellite Measurements Using Fast Atmospheric Correction Technique. <i>Remote Sensing</i> , 2020 , 12, 234	5	13
147	Influence of cloud, fog, and high relative humidity during pollution transport events in South Korea: Aerosol properties and PM2.5 variability. <i>Atmospheric Environment</i> , 2020 , 232, 117530	5.3	20
146	Remote Sensing of Arctic Atmospheric Aerosols. <i>Springer Polar Sciences</i> , 2020 , 505-589	0.4	
145	The AERONET Version 3 aerosol retrieval algorithm, associated uncertainties and comparisons to Version 2. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 3375-3411	4	67
144	The retrieval of cloud properties based on spectral solar light diffuse transmittance measurements under optically thick cloud cover conditions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 251, 107008	2.1	1
143	Observationally constrained analysis of sea salt aerosol in the marine atmosphere 2019 ,		1
142	Global validation of columnar water vapor derived from EOS MODIS-MAIAC algorithm against the ground-based AERONET observations. <i>Atmospheric Research</i> , 2019 , 225, 181-192	5.4	15
141	AERONET Remotely Sensed Measurements and Retrievals of Biomass Burning Aerosol Optical Properties During the 2015 Indonesian Burning Season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 4722-4740	4.4	21
140	Advancements in the Aerosol Robotic Network (AERONET) Version 3 database: Automated near-real-time quality control algorithm with improved cloud screening for Sun photometer aerosol optical depth (AOD) measurements. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 169-209	4	370
139	Observationally constrained analysis of sea salt aerosol in the marine atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10773-10785	6.8	24
138	Oceanic Aerosol Loading Derived From MISR's 4.4 km (V23) Aerosol Product. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 10154-10174	4.4	5
137	Intercomparison of aerosol volume size distributions derived from AERONET ground-based remote sensing and LARGE in situ aircraft profiles during the 2011-2014 DRAGON and DISCOVER-AQ experiments. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5289-5301	4	4
136	Precipitable water vapor over oceans from the Maritime Aerosol Network: Evaluation of global models and satellite products under clear sky conditions. <i>Atmospheric Research</i> , 2019 , 215, 294-304	5.4	2
135	Limitations of AERONET SDA product in presence of cirrus clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 206, 338-341	2.1	10
134	Observations of the Interaction and Transport of Fine Mode Aerosols with Cloud and/or Fog in Northeast Asia from Aerosol Robotic Network (AERONET) and Satellite Remote Sensing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 5560-5587	4.4	33
133	An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 655-671	6.8	48
132	Satellite Ocean Aerosol Retrieval (SOAR) algorithm extension to S-NPP VIIRS as part of the 'Deep Blue' aerosol project. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 380-400	4.4	40

131	Aerosol Optical Characteristics Retrieved from CIMEL Sun Photometer Measurements (AERONET) near St. Petersburg. <i>Atmospheric and Oceanic Optics</i> , 2018 , 31, 635-641	0.8	7
130	Variations in aerosol optical and microphysical characteristics along the route of Russian Antarctic Expeditions in the East Atlantic. <i>Atmospheric and Oceanic Optics</i> , 2017 , 30, 89-102	0.8	12
129	The MERRA-2 Aerosol Reanalysis, 1980 - onward, Part I: System Description and Data Assimilation Evaluation. <i>Journal of Climate</i> , 2017 , 30, 6823-6850	4.4	45 ¹
128	Radiative characteristics of aerosol during extreme fire event over Siberia in summer 2012. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 179-198	4	27
127	Evaluation of NASA Deep Blue/SOAR aerosol retrieval algorithms applied to AVHRR measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9945-9967	4.4	3 ²
126	Error analysis of integrated water vapor measured by BMEL photometer. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2017 , 53, 58-64	1	6
125	An overview of meso-scale aerosol processes, comparison and validation studies from DRAGON networks 2017 ,		4
124	Maritime Aerosol Network optical depth measurements and comparison with satellite retrievals from various different sensors 2017 ,		2
123	Aerosol meteorology and Philippine receptor observations of Maritime Continent aerosol emissions for the 2012 7SEAS southwest monsoon intensive study 2016 ,		1
122	Aerosol meteorology of Maritime Continent for the 2012 7SEAS southwest monsoon intensive study [Part 2: Philippine receptor observations of fine-scale aerosol behavior. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14057-14078	6.8	24
121	Statistical study of day and night hourly patterns of columnar aerosol properties using sun and star photometry 2016 ,		6
120	A theoretical study of the effect of subsurface oceanic bubbles on the enhanced aerosol optical depth band over the southern oceans as detected from MODIS and MISR. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2149-2160	4	1
119	Aerosol remote sensing in polar regions. <i>Earth-Science Reviews</i> , 2015 , 140, 108-157	10.2	83
118	An assessment of the quality of aerosol retrievals over the Red Sea and evaluation of the climatological cloud-free dust direct radiative effect in the region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 10,862-10,878	4.4	23
117	Observations of the temporal variability in aerosol properties and their relationships to meteorology in the summer monsoonal South China Sea/East Sea: the scale-dependent role of monsoonal flows, the Madden-Julian Oscillation, tropical cyclones, squall lines and cold pools. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1745-1768	6.8	28
116	Analysis of approaches to modeling the annual and spectral behaviors of atmospheric aerosol optical depth in Siberia and Primorye. <i>Atmospheric and Oceanic Optics</i> , 2015 , 28, 145-157	0.8	10
115	Evaluation of AERONET precipitable water vapor versus microwave radiometry, GPS, and radiosondes at ARM sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9596-9613	4.4	76
114	AERONET-based models of smoke-dominated aerosol near source regions and transported over oceans, and implications for satellite retrievals of aerosol optical depth. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11493-11523	6.8	63

113	Observations of rapid aerosol optical depth enhancements in the vicinity of polluted cumulus clouds. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11633-11656	6.8	46
112	Intercomparison of aerosol single-scattering albedo derived from AERONET surface radiometers and LARGE in situ aircraft profiles during the 2011 DRAGON-MD and DISCOVER-AQ experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7439-7452	4.4	30
111	Results of spectral measurements of atmospheric aerosol optical depth with sun photometers in the 58th Russian Antarctic Expedition. <i>Atmospheric and Oceanic Optics</i> , 2014 , 27, 393-402	0.8	7
110	On results of studies of atmospheric aerosol optical depth in arctic regions. <i>Atmospheric and Oceanic Optics</i> , 2014 , 27, 517-528	0.8	11
109	Annual behavior of the aerosol optical depth in some regions of Asian part of Russia 2014 ,		2
108	A theoretical study of the effect of subsurface oceanic bubbles on the enhanced aerosol optical depth band over the southern oceans as detected from MODIS 2014 ,		1
107	Aerosol optical depths over oceans: A view from MISR retrievals and collocated MAN and AERONET in situ observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,620-12,633	4.4	24
106	Investigating enhanced Aqua MODIS aerosol optical depth retrievals over the mid-to-high latitude Southern Oceans through intercomparison with co-located CALIOP, MAN, and AERONET data sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4700-4714	4.4	47
105	Influence of observed diurnal cycles of aerosol optical depth on aerosol direct radiative effect. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7895-7901	6.8	24
104	A seasonal trend of single scattering albedo in southern African biomass-burning particles: Implications for satellite products and estimates of emissions for the world's largest biomass-burning source. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6414-6432	4.4	79
103	Evaluation and Wind Speed Dependence of MODIS Aerosol Retrievals Over Open Ocean. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012 , 50, 429-435	8.1	25
102	Assessment of error in aerosol optical depth measured by AERONET due to aerosol forward scattering. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	34
101	Fog- and cloud-induced aerosol modification observed by the Aerosol Robotic Network (AERONET). <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		70
100	SeaWiFS Ocean Aerosol Retrieval (SOAR): Algorithm, validation, and comparison with other data sets. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		93
99	A pure marine aerosol model, for use in remote sensing applications. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		58
98	Aerosol daytime variations over North and South America derived from multiyear AERONET measurements. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20
97	Evaluations of cirrus contamination and screening in ground aerosol observations using collocated lidar systems. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		18
96	An analysis of AERONET aerosol absorption properties and classifications representative of aerosol source regions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		240

95	Effect of wind speed on aerosol optical depth over remote oceans, based on data from the Maritime Aerosol Network. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 377-388	4	24
94	Smoke aerosol and its radiative effects during extreme fire event over Central Russia in summer 2010. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 557-568	4	87
93	Estimating marine aerosol particle volume and number from Maritime Aerosol Network data. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8889-8909	6.8	24
92	Comparison of Moderate Resolution Imaging Spectroradiometer ocean aerosol retrievals with ship-based Sun photometer measurements from the Around the Americas expedition. <i>Journal of Geophysical Research</i> , 2011 , 116,		9
91	Reduction of aerosol absorption in Beijing since 2007 from MODIS and AERONET. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	24
90	Dust optical properties over North Africa and Arabian Peninsula derived from the AERONET dataset. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 10733-10741	6.8	97
89	Investigating organic aerosol loading in the remote marine environment. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8847-8860	6.8	47
88	Accumulation of aerosols over the Indo-Gangetic plains and southern slopes of the Himalayas: distribution, properties and radiative effects during the 2009 pre-monsoon season. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12841-12863	6.8	191
87	Optical and microphysical parameters of the aerosol in the smoky atmosphere of the Moscow region in 2010. <i>Doklady Earth Sciences</i> , 2011 , 437, 513-517	0.6	31
86	Maritime Aerosol Network as a component of AERONET ¶first results and comparison with global aerosol models and satellite retrievals 2011 ,		3
85	Assessments of urban aerosol pollution in Moscow and its radiative effects. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 367-378	4	19
84	Multiyear Observations of the Tropical Atlantic Atmosphere: Multidisciplinary Applications of the NOAA Aerosols and Ocean Science Expeditions. <i>Bulletin of the American Meteorological Society</i> , 2011 , 92, 765-789	6.1	38
83	Maritime aerosol network as a component of AERONET ¶first results and comparison with global aerosol models and satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 583-597	4	121
82	Smoke aerosol and its radiative effects during extreme fire event over Central Russia in summer 2010 2011 ,		8
81	AEROSOL PROPERTIES IN MOSCOW ACCORDING TO 10 YEARS OF AERONET MEASUREMENTS AT THE METEOROLOGICAL OBSERVATORY OF MOSCOW STATE UNIVERSITY. <i>Geography, Environment, Sustainability</i> , 2011 , 4, 19-32	1	14
80	Assessments of urban aerosol pollution in Moscow and its radiative effects 2010 ,		1
79	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. <i>Journal of Geophysical Research</i> , 2010 , 115,		276
78	Optical and physical characteristics of Bay of Bengal aerosols during W-ICARB: Spatial and vertical heterogeneities in the marine atmospheric boundary layer and in the vertical column. <i>Journal of Geophysical Research</i> , 2010 , 115,		45

77	Multiangle Imaging SpectroRadiometer global aerosol product assessment by comparison with the Aerosol Robotic Network. <i>Journal of Geophysical Research</i> , 2010 , 115,		398
76	Aerosol optical properties over the South Atlantic and Southern Ocean during the 140th cruise of the M/VS.A. Agulhas. <i>Atmospheric Research</i> , 2010 , 98, 285-296	5.4	9
75	Validation of SeaWiFS and MODIS aerosol products with globally distributed AERONET data. <i>Remote Sensing of Environment</i> , 2010 , 114, 230-250	13.2	49
74	Characteristics of the annual behavior of the spectral aerosol optical depth of the atmosphere under conditions of Siberia. <i>Atmospheric and Oceanic Optics</i> , 2009 , 22, 446-456	0.8	21
73	Aerosol optical properties at Nam Co, a remote site in central Tibetan Plateau. <i>Atmospheric Research</i> , 2009 , 92, 42-48	5.4	74
72	Columnar water vapor retrievals from multifilter rotating shadowband radiometer data. <i>Journal of Geophysical Research</i> , 2009 , 114,		55
71	Optical properties of boreal region biomass burning aerosols in central Alaska and seasonal variation of aerosol optical depth at an Arctic coastal site. <i>Journal of Geophysical Research</i> , 2009 , 114,		105
70	Maritime Aerosol Network as a component of Aerosol Robotic Network. <i>Journal of Geophysical Research</i> , 2009 , 114,		203
69	Comparison of aerosol optical depths from the Ozone Monitoring Instrument (OMI) on Aura with results from airborne sunphotometry, other space and ground measurements during MILAGRO/INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6743-6765	6.8	43
68	Spatial and temporal variability of column-integrated aerosol optical properties in the southern Arabian Gulf and United Arab Emirates in summer. <i>Journal of Geophysical Research</i> , 2008 , 113,		108
67	Coarse mode optical information retrievable using ultraviolet to short-wave infrared Sun photometry: Application to United Arab Emirates Unified Aerosol Experiment data. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		20
66	Does the Madden-Julian Oscillation influence aerosol variability?. <i>Journal of Geophysical Research</i> , 2008 , 113,		57
65	Aerosol optical and microphysical properties over the Atlantic Ocean during the 19th cruise of the Research Vessel Akademik Sergey Vavilov. <i>Journal of Geophysical Research</i> , 2007 , 112,		17
64	How well do state-of-the-art techniques measuring the vertical profile of tropospheric aerosol extinction compare?. <i>Journal of Geophysical Research</i> , 2006 , 111,		65
63	Ship-based aerosol optical depth measurements in the Atlantic Ocean: Comparison with satellite retrievals and GOCART model. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	48
62	Local analysis of MISR surface BRF and albedo over GSFC and mongu AERONET sites. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006 , 44, 1707-1718	8.1	15
61	Aeronet's Version 2.0 quality assurance criteria 2006 , 6408, 134		151
60	Aerosol load characterization over SouthEast Italy for one year of AERONET sun-photometer measurements. <i>Atmospheric Research</i> , 2005 , 75, 111-133	5.4	51

59	Aerosol optical depth over the mountainous region in central Asia (Issyk-Kul Lake, Kyrgyzstan). <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	14
58	Columnar aerosol optical properties at AERONET sites in central eastern Asia and aerosol transport to the tropical mid-Pacific. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a		323
57	MISR Calibration and Implications for Low-Light-Level Aerosol Retrieval over Dark Water. <i>Journals of the Atmospheric Sciences</i> , 2005 , 62, 1032-1052	2.1	57
56	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	2.1	29
55	Regional evaluation of an advanced very high resolution radiometer (AVHRR) two-channel aerosol retrieval algorithm. <i>Journal of Geophysical Research</i> , 2004 , 109,		22
54	Monthly averages of aerosol properties: A global comparison among models, satellite data, and AERONET ground data. <i>Journal of Geophysical Research</i> , 2003 , 108,		218
53	Variability of biomass burning aerosol optical characteristics in southern Africa during the SAFARI 2000 dry season campaign and a comparison of single scattering albedo estimates from radiometric measurements. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		124
52	Comparison of size and morphological measurements of coarse mode dust particles from Africa. <i>Journal of Geophysical Research</i> , 2003 , 108,		230
51	Analysis of measurements of Saharan dust by airborne and ground-based remote sensing methods during the Puerto Rico Dust Experiment (PRIDE). <i>Journal of Geophysical Research</i> , 2003 , 108,		120
50	Airborne Sun photometer measurements of aerosol optical depth and columnar water vapor during the Puerto Rico Dust Experiment and comparison with land, aircraft, and satellite measurements. <i>Journal of Geophysical Research</i> , 2003 , 108,		33
49	Maritime component in aerosol optical models derived from Aerosol Robotic Network data. <i>Journal of Geophysical Research</i> , 2003 , 108, AAC 14-1		95
48	Spectral discrimination of coarse and fine mode optical depth. <i>Journal of Geophysical Research</i> , 2003 , 108,		446
47	High aerosol optical depth biomass burning events: A comparison of optical properties for different source regions. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	146
46	Effect of wind speed on columnar aerosol optical properties at Midway Island. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		84
45	Atmospheric Aerosol Optical Properties in the Persian Gulf. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 620-634	2.1	163
44	Development of a Global Validation Package for Satellite Oceanic Aerosol Optical Thickness Retrieval Based on AERONET Observations and Its Application to NOAA/NESDIS Operational Aerosol Retrievals. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 294-312	2.1	67
43	Optical properties of boreal forest fire smoke derived from Sun photometry. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 6-1-AAC 6-19		57
42	Diurnal variability of aerosol optical depth observed at AERONET (Aerosol Robotic Network) sites. <i>Geophysical Research Letters</i> , 2002 , 29, 30-1-30-4	4.9	161

41	Correction to Optical properties of boreal forest fire smoke derived from Sun photometry by N. T. O'Neill, T. F. Eck, B. N. Holben, A. Smirnov, A. Royer, and Z. Li. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 9-1			6
40	Variability of Absorption and Optical Properties of Key Aerosol Types Observed in Worldwide Locations. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 590-608	2.1		2159
39	Optical Properties of Atmospheric Aerosol in Maritime Environments. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 501-523	2.1		293
38	Validation of MODIS aerosol retrieval over ocean. <i>Geophysical Research Letters</i> , 2002 , 29, MOD3-1	4.9		276
37	Remote sensing of non-aerosol absorption in cloud free atmosphere. <i>Geophysical Research Letters</i> , 2002 , 29, 4-1-4-4	4.9		7
36	How well do aerosol retrievals from satellites and representation in global circulation models match ground-based AERONET aerosol statistics?. <i>Advances in Global Change Research</i> , 2001 , 103-158	1.2		7
35	Column-integrated aerosol optical properties over the Maldives during the northeast monsoon for 1998-2000. <i>Journal of Geophysical Research</i> , 2001 , 106, 28555-28566			118
34	An emerging ground-based aerosol climatology: Aerosol optical depth from AERONET. <i>Journal of Geophysical Research</i> , 2001 , 106, 12067-12097			1459
33	Bimodal size distribution influences on the variation of Angstrom derivatives in spectral and optical depth space. <i>Journal of Geophysical Research</i> , 2001 , 106, 9787-9806			175
32	Characterization of the optical properties of biomass burning aerosols in Zambia during the 1997 ZIBBEE field campaign. <i>Journal of Geophysical Research</i> , 2001 , 106, 3425-3448			180
31	Climatology of dust aerosol size distribution and optical properties derived from remotely sensed data in the solar spectrum. <i>Journal of Geophysical Research</i> , 2001 , 106, 18205-18217			141
30	Evolution of the vertical profile and flux of large sea-salt particles in a coastal zone. <i>Journal of Geophysical Research</i> , 2001 , 106, 12039-12053			55
29	Baseline maritime aerosol: Methodology to Derive the optical thickness and scattering properties. <i>Geophysical Research Letters</i> , 2001 , 28, 3251-3254	4.9		98
28	A Study of Global Aerosol Optical Climatology with Two-Channel AVHRR Remote Sensing. <i>Journal of Climate</i> , 2000 , 13, 2011-2027	4.4		72
27	Cloud-Screening and Quality Control Algorithms for the AERONET Database. <i>Remote Sensing of Environment</i> , 2000 , 73, 337-349	13.2		1101
26	Ground-based lidar measurements of aerosols during ACE-2: instrument description, results, and comparisons with other ground-based and airborne measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 636-651	3.3		78
25	Ground-based lidar measurements of aerosols during ACE-2: instrument description, results, and comparisons with other ground-based and airborne measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 636-651	3.3		63
24	Accuracy assessments of aerosol optical properties retrieved from Aerosol Robotic Network (AERONET) Sun and sky radiance measurements. <i>Journal of Geophysical Research</i> , 2000 , 105, 9791-9806			1272

23	Relationship between column aerosol optical thickness and in situ ground based dust concentrations over Barbados. <i>Geophysical Research Letters</i> , 2000 , 27, 1643-1646	4.9	63
22	Measurement of atmospheric optical parameters on U.S. Atlantic coast sites, ships, and Bermuda during TARFOX. <i>Journal of Geophysical Research</i> , 2000 , 105, 9887-9901		48
21	Comparison of aerosol optical properties and water vapor among ground and airborne lidars and Sun photometers during TARFOX. <i>Journal of Geophysical Research</i> , 2000 , 105, 9917-9933		38
20	Will aerosol measurements from Terra and Aqua Polar Orbiting satellites represent the daily aerosol abundance and properties?. <i>Geophysical Research Letters</i> , 2000 , 27, 3861-3864	4.9	103
19	Retrieval of aerosol optical thickness and size distribution over ocean from the MODIS airborne simulator during TARFOX. <i>Journal of Geophysical Research</i> , 1999 , 104, 2261-2278		72
18	Comparisons of the TOMS aerosol index with Sun-photometer aerosol optical thickness: Results and applications. <i>Journal of Geophysical Research</i> , 1999 , 104, 6269-6279		232
17	Comparison of aerosol optical depth from four solar radiometers during the fall 1997 ARM intensive observation period. <i>Geophysical Research Letters</i> , 1999 , 26, 2725-2728	4.9	99
16	Wavelength dependence of the optical depth of biomass burning, urban, and desert dust aerosols. <i>Journal of Geophysical Research</i> , 1999 , 104, 31333-31349		1437
15	AERONET ² Federated Instrument Network and Data Archive for Aerosol Characterization. <i>Remote Sensing of Environment</i> , 1998 , 66, 1-16	13.2	5114
14	Optical properties of Saharan dust during ACE 2. <i>Journal of Geophysical Research</i> , 1998 , 103, 28079-28092		52
13	Single-scattering albedo of smoke retrieved from the sky radiance and solar transmittance measured from ground. <i>Journal of Geophysical Research</i> , 1998 , 103, 31903-31923		94
12	Aerosol optical depth over Canada and the link with synoptic air mass types. <i>Journal of Geophysical Research</i> , 1996 , 101, 19299-19318		24
11	Aerosol optical depth over the oceans: Analysis in terms of synoptic air mass types. <i>Journal of Geophysical Research</i> , 1995 , 100, 16639		89
10	Measurement of aerosol optical depth in the Atlantic Ocean and Mediterranean Sea 1995 , 2582, 203		11
9	A study of the link between synoptic air mass type and atmospheric optical parameters. <i>Journal of Geophysical Research</i> , 1994 , 99, 20967		45
8	Investigating organic aerosol loading in the remote marine environment		2
7	Accumulation of aerosols over the Indo-Gangetic plains and southern slopes of the Himalayas: distribution, properties and radiative effects during the 2009 pre-monsoon Season		5
6	Dust optical properties over North Africa and Arabian Peninsula derived from the AERONET dataset		7

5	Influence of observed diurnal cycles of aerosol optical depth on aerosol direct radiative effect	3
4	AERONET-based microphysical and optical properties of smoke-dominated aerosol near source regions and transported over oceans, and implications for satellite retrievals of aerosol optical depth	1
3	Comparison of aerosol optical depths from the Ozone Monitoring Instrument (OMI) on Aura with results from airborne sunphotometry, other space and ground measurements during MILAGRO/INTEX-B	4
2	Advancements in the Aerosol Robotic Network (AERONET) Version 3 Database [Automated Near Real-Time Quality Control Algorithm with Improved Cloud Screening for Sun Photometer Aerosol Optical Depth (AOD) Measurements	5
1	The AERONET Version 3 aerosol retrieval algorithm, associated uncertainties and comparisons to Version 2	3