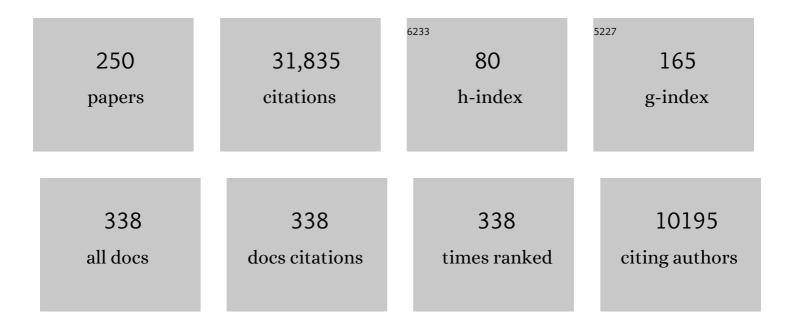
## Oleg Dubovik

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Variability of Absorption and Optical Properties of Key Aerosol Types Observed in Worldwide Locations. Journals of the Atmospheric Sciences, 2002, 59, 590-608.	0.6	2,558
2	A flexible inversion algorithm for retrieval of aerosol optical properties from Sun and sky radiance measurements. Journal of Geophysical Research, 2000, 105, 20673-20696.	3.3	1,995
3	Wavelength dependence of the optical depth of biomass burning, urban, and desert dust aerosols. Journal of Geophysical Research, 1999, 104, 31333-31349.	3.3	1,737
4	Sources and distributions of dust aerosols simulated with the GOCART model. Journal of Geophysical Research, 2001, 106, 20255-20273.	3.3	1,620
5	Accuracy assessments of aerosol optical properties retrieved from Aerosol Robotic Network (AERONET) Sun and sky radiance measurements. Journal of Geophysical Research, 2000, 105, 9791-9806.	3.3	1,532
6	Cloud-Screening and Quality Control Algorithms for the AERONET Database. Remote Sensing of Environment, 2000, 73, 337-349.	4.6	1,285
7	Application of spheroid models to account for aerosol particle nonsphericity in remote sensing of desert dust. Journal of Geophysical Research, 2006, 111, .	3.3	1,195
8	Angstrom exponent and bimodal aerosol size distributions. Journal of Geophysical Research, 2006, 111,	3.3	630
9	Evaluation of black carbon estimations in global aerosol models. Atmospheric Chemistry and Physics, 2009, 9, 9001-9026.	1.9	585
10	Absorption Angstrom Exponent in AERONET and related data as an indicator of aerosol composition. Atmospheric Chemistry and Physics, 2010, 10, 1155-1169.	1.9	554
11	Statistically optimized inversion algorithm for enhanced retrieval of aerosol properties from spectral multi-angle polarimetric satellite observations. Atmospheric Measurement Techniques, 2011, 4, 975-1018.	1.2	493
12	A review of biomass burning emissions part III: intensive optical properties of biomass burning particles. Atmospheric Chemistry and Physics, 2005, 5, 827-849.	1.9	484
13	Single-Scattering Albedo and Radiative Forcing of Various Aerosol Species with a Global Three-Dimensional Model. Journal of Climate, 2002, 15, 333-352.	1.2	448
14	Global aerosol optical properties and application to Moderate Resolution Imaging Spectroradiometer aerosol retrieval over land. Journal of Geophysical Research, 2007, 112, .	3.3	430
15	Non-spherical aerosol retrieval method employing light scattering by spheroids. Geophysical Research Letters, 2002, 29, 54-1-54-4.	1.5	404
16	Columnar aerosol optical properties at AERONET sites in central eastern Asia and aerosol transport to the tropical mid-Pacific. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	377
17	Optical Properties of Atmospheric Aerosol in Maritime Environments. Journals of the Atmospheric Sciences, 2002, 59, 501-523.	0.6	333
18	Validation of MODIS aerosol retrieval over ocean. Geophysical Research Letters, 2002, 29, MOD3-1.	1.5	325

#	Article	IF	CITATIONS
19	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. Journal of Geophysical Research, 2010, 115, .	3.3	325
20	Development of global aerosol models using cluster analysis of Aerosol Robotic Network (AERONET) measurements. Journal of Geophysical Research, 2005, 110, .	3.3	295
21	Absorption of sunlight by dust as inferred from satellite and ground-based remote sensing. Geophysical Research Letters, 2001, 28, 1479-1482.	1.5	294
22	Column aerosol optical properties and aerosol radiative forcing during a serious haze-fog month over North China Plain in 2013 based on ground-based sunphotometer measurements. Atmospheric Chemistry and Physics, 2014, 14, 2125-2138.	1.9	266
23	Monthly averages of aerosol properties: A global comparison among models, satellite data, and AERONET ground data. Journal of Geophysical Research, 2003, 108, .	3.3	258
24	Comparison of size and morphological measurements of coarse mode dust particles from Africa. Journal of Geophysical Research, 2003, 108, .	3.3	257
25	Variability of aerosol and spectral lidar and backscatter and extinction ratios of key aerosol types derived from selected Aerosol Robotic Network locations. Journal of Geophysical Research, 2005, 110,	3.3	256
26	Remote sensing of aerosols by using polarized, directional and spectral measurements within the A-Train: the PARASOL mission. Atmospheric Measurement Techniques, 2011, 4, 1383-1395.	1.2	255
27	Polarimetric remote sensing of atmospheric aerosols: Instruments, methodologies, results, and perspectives. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 224, 474-511.	1.1	224
28	Comparison of CALIPSO aerosol optical depth retrievals to AERONET measurements, and a climatology for the lidar ratio of dust. Atmospheric Chemistry and Physics, 2012, 12, 7431-7452.	1.9	218
29	Light absorption by pollution, dust, and biomass burning aerosols: a global model study and evaluation with AERONET measurements. Annales Geophysicae, 2009, 27, 3439-3464.	0.6	214
30	Characterization of the optical properties of biomass burning aerosols in Zambia during the 1997 ZIBBEE field campaign. Journal of Geophysical Research, 2001, 106, 3425-3448.	3.3	207
31	Bimodal size distribution influences on the variation of Angstrom derivatives in spectral and optical depth space. Journal of Geophysical Research, 2001, 106, 9787-9806.	3.3	205
32	Global atmospheric black carbon inferred from AERONET. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6319-6324.	3.3	204
33	Modified Ãngström exponent for the characterization of submicrometer aerosols. Applied Optics, 2001, 40, 2368.	2.1	198
34	Modeling of the scattering and radiative properties of nonspherical dust-like aerosols. Journal of Aerosol Science, 2007, 38, 995-1014.	1.8	180
35	High aerosol optical depth biomass burning events: A comparison of optical properties for different source regions. Geophysical Research Letters, 2003, 30, .	1.5	179

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37	Atmospheric Aerosol Optical Properties in the Persian Gulf. Journals of the Atmospheric Sciences, 2002, 59, 620-634.	0.6	177
38	Combined use of satellite and surface observations to infer the imaginary part of refractive index of Saharan dust. Geophysical Research Letters, 2003, 30, .	1.5	173
39	An approach to estimate global biomass burning emissions of organic and black carbon from MODIS fire radiative power. Journal of Geophysical Research, 2009, 114, .	3.3	162
40	Climatology of dust aerosol size distribution and optical properties derived from remotely sensed data in the solar spectrum. Journal of Geophysical Research, 2001, 106, 18205-18217.	3.3	161
41	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. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	158
42	Influence of Saharan dust on cloud glaciation in southern Morocco during the Saharan Mineral Dust Experiment. Journal of Geophysical Research, 2008, 113, .	3.3	156
43	Enhancement of aerosol characterization using synergy of lidar and sun-photometer coincident observations: the GARRLiC algorithm. Atmospheric Measurement Techniques, 2013, 6, 2065-2088.	1.2	153
44	Mineral dust emission from the Bodélé Depression, northern Chad, during BoDEx 2005. Journal of Geophysical Research, 2007, 112, .	3.3	149
45	Inferring black carbon content and specific absorption from Aerosol Robotic Network (AERONET) aerosol retrievals. Journal of Geophysical Research, 2005, 110, .	3.3	145
46	Shortwave radiative forcing and efficiency of key aerosol types using AERONET data. Atmospheric Chemistry and Physics, 2012, 12, 5129-5145.	1.9	139
47	Retrieving global aerosol sources from satellites using inverse modeling. Atmospheric Chemistry and Physics, 2008, 8, 209-250.	1.9	138
48	Column-integrated aerosol optical properties over the Maldives during the northeast monsoon for 1998-2000. Journal of Geophysical Research, 2001, 106, 28555-28566.	3.3	137
49	The inter-comparison of major satellite aerosol retrieval algorithms using simulated intensity and polarization characteristics of reflected light. Atmospheric Measurement Techniques, 2010, 3, 909-932.	1.2	136
50	Aerosol physical and chemical properties retrieved from ground-based remote sensing measurements during heavy haze days in Beijing winter. Atmospheric Chemistry and Physics, 2013, 13, 10171-10183.	1.9	135
51	GRASP: a versatile algorithm for characterizing the atmosphere. SPIE Newsroom, 0, , .	0.1	134
52	Recent trends in aerosol optical properties derived from AERONET measurements. Atmospheric Chemistry and Physics, 2014, 14, 12271-12289.	1.9	132
53	Development, Production and Evaluation of Aerosol Climate Data Records from European Satellite Observations (Aerosol_cci). Remote Sensing, 2016, 8, 421.	1.8	131
54	Comparison of Moderate Resolution Imaging Spectroradiometer (MODIS) and Aerosol Robotic Network (AERONET) remote-sensing retrievals of aerosol fine mode fraction over ocean. Journal of Geophysical Research, 2005, 110, .	3.3	123

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55	Optical properties of boreal region biomass burning aerosols in central Alaska and seasonal variation of aerosol optical depth at an Arctic coastal site. Journal of Geophysical Research, 2009, 114, .	3.3	123
56	Spatial and temporal variability of columnâ€integrated aerosol optical properties in the southern Arabian Gulf and United Arab Emirates in summer. Journal of Geophysical Research, 2008, 113, .	3.3	119
57	Maritime component in aerosol optical models derived from Aerosol Robotic Network data. Journal of Geophysical Research, 2003, 108, AAC 14-1.	3.3	115
58	Baseline maritime aerosol: Methodology to Derive the optical thickness and scattering properties. Geophysical Research Letters, 2001, 28, 3251-3254.	1.5	114
59	Microphysical and optical properties of aerosol particles in urban zone during ESCOMPTE. Atmospheric Research, 2003, 69, 73-97.	1.8	114
60	Aerosol optical properties and direct radiative forcing based on measurements from the China Aerosol Remote Sensing Network (CARSNET) in eastern China. Atmospheric Chemistry and Physics, 2018, 18, 405-425.	1.9	113
61	Direct radiative effect of aerosols as determined from a combination of MODIS retrievals and GOCART simulations. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	112
62	Single-scattering albedo of smoke retrieved from the sky radiance and solar transmittance measured from ground. Journal of Geophysical Research, 1998, 103, 31903-31923.	3.3	109
63	Impact of dust aerosols on the radiative budget, surface heat fluxes, heating rate profiles and convective activity over West Africa during March 2006. Atmospheric Chemistry and Physics, 2009, 9, 7143-7160.	1.9	109
64	Comparison of aerosol size distributions, radiative properties, and optical depths determined by aircraft observations and Sun photometers during SAFARI 2000. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	107
65	Application of randomly oriented spheroids for retrieval of dust particle parameters from multiwavelength lidar measurements. Journal of Geophysical Research, 2010, 115, .	3.3	107
66	Absorption properties of Mediterranean aerosols obtained from multi-year ground-based remote sensing observations. Atmospheric Chemistry and Physics, 2013, 13, 9195-9210.	1.9	103
67	Spatial distribution of aerosol microphysical and optical properties and direct radiative effect from the China Aerosol Remote Sensing Network. Atmospheric Chemistry and Physics, 2019, 19, 11843-11864.	1.9	101
68	Validation of AERONET estimates of atmospheric solar fluxes and aerosol radiative forcing by groundâ€based broadband measurements. Journal of Geophysical Research, 2008, 113, .	3.3	100
69	Fog―and cloudâ€induced aerosol modification observed by the Aerosol Robotic Network (AERONET). Journal of Geophysical Research, 2012, 117, .	3.3	99
70	A seasonal trend of single scattering albedo in southern African biomassâ€burning particles: Implications for satellite products and estimates of emissions for the world's largest biomassâ€burning source. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6414-6432.	1.2	99
71	Saharan dust over a central European EARLINET-AERONET site: Combined observations with Raman lidar and Sun photometer. Journal of Geophysical Research, 2003, 108, .	3.3	98
72	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. Frontiers in Earth Science, 2019, 7, .	0.8	98

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73	Merging regional and global aerosol optical depth records from major available satellite products. Atmospheric Chemistry and Physics, 2020, 20, 2031-2056.	1.9	98
74	Effect of wind speed on columnar aerosol optical properties at Midway Island. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	97
75	Simultaneous retrieval of aerosol and surface properties from a combination of AERONET and satellite data. Remote Sensing of Environment, 2007, 107, 90-108.	4.6	97
76	The role of iron and black carbon in aerosol light absorption. Atmospheric Chemistry and Physics, 2008, 8, 3623-3637.	1.9	97
77	Retrieval of optical and physical properties of African dust from multiwavelength Raman lidar measurements during the SHADOW campaign in Senegal. Atmospheric Chemistry and Physics, 2016, 16, 7013-7028.	1.9	96
78	Retrieval of aerosol microphysical and optical properties above liquid clouds from POLDER/PARASOL polarization measurements. Atmospheric Measurement Techniques, 2013, 6, 991-1016.	1.2	94
79	Scattering and absorbing aerosols in the climate system. Nature Reviews Earth & Environment, 2022, 3, 363-379.	12.2	93
80	Lidar-Radiometer Inversion Code (LIRIC) for the retrieval of vertical aerosol properties from combined lidar/radiometer data: development and distribution in EARLINET. Atmospheric Measurement Techniques, 2016, 9, 1181-1205.	1.2	92
81	Validation of GRASP algorithm product from POLDER/PARASOL data and assessment of multi-angular polarimetry potential for aerosol monitoring. Earth System Science Data, 2020, 12, 3573-3620.	3.7	90
82	Raman lidar measurements of the aerosol extinction-to-backscatter ratio over the Southern Great Plains. Journal of Geophysical Research, 2001, 106, 20333-20347.	3.3	87
83	Dust and pollution aerosols over the Negev desert, Israel: Properties, transport, and radiative effect. Journal of Geophysical Research, 2006, 111, .	3.3	87
84	Long-range-transported Canadian smoke plumes in the lower stratosphere over northern France. Atmospheric Chemistry and Physics, 2019, 19, 1173-1193.	1.9	86
85	Retrieval of aerosol components directly from satellite and ground-based measurements. Atmospheric Chemistry and Physics, 2019, 19, 13409-13443.	1.9	82
86	Remote sensing of soot carbon – Part 1: Distinguishing different absorbing aerosol species. Atmospheric Chemistry and Physics, 2016, 16, 1565-1585.	1.9	81
87	Testing the MODIS satellite retrieval of aerosol fine-mode fraction. Journal of Geophysical Research, 2005, 110, .	3.3	80
88	Modelling soil dust aerosol in the Bodélé depression during the BoDEx campaign. Atmospheric Chemistry and Physics, 2006, 6, 4345-4359.	1.9	79
89	Improvements for ground-based remote sensing of atmospheric aerosol properties by additional polarimetric measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1954-1961.	1.1	79
90	Evaluation of the Lidar/Radiometer Inversion Code (LIRIC) to determine microphysical properties of volcanic and desert dust. Atmospheric Measurement Techniques, 2013, 6, 1707-1724.	1.2	75

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91	Space-based remote sensing of atmospheric aerosols: The multi-angle spectro-polarimetric frontier. Earth-Science Reviews, 2015, 145, 85-116.	4.0	75
92	Radiative properties of aerosol mixture observed during the dry season 2006 over M'Bour, Senegal (African Monsoon Multidisciplinary Analysis campaign). Journal of Geophysical Research, 2008, 113, .	3.3	74
93	A synergetic approach for estimating the local direct aerosol forcing: Application to an urban zone during the ExpA®rience sur Site pour Contraindre les Modðles de Pollution et de Transport d'Emission (ESCOMPTE) experiment. Journal of Geophysical Research, 2006, 111, .	3.3	73
94	Development of a new data-processing method for SKYNET sky radiometer observations. Atmospheric Measurement Techniques, 2012, 5, 2723-2737.	1.2	71
95	Advanced characterisation of aerosol size properties from measurements of spectral optical depth using the CRASP algorithm. Atmospheric Measurement Techniques, 2017, 10, 3743-3781.	1.2	71
96	Joint retrieval of aerosol and water-leaving radiance from multispectral, multiangular and polarimetric measurements over ocean. Atmospheric Measurement Techniques, 2016, 9, 2877-2907.	1.2	69
97	Column closure studies of lower tropospheric aerosol and water vapor during ACE-Asia using airborne Sun photometer and airborne in situ and ship-based lidar measurements. Journal of Geophysical Research, 2003, 108, ACE 24-1-ACE 24-22.	3.3	68
98	Smoke aerosol from biomass burning in Mexico: Hygroscopic smoke optical model. Journal of Geophysical Research, 2001, 106, 4831-4844.	3.3	66
99	MISR Calibration and Implications for Low-Light-Level Aerosol Retrieval over Dark Water. Journals of the Atmospheric Sciences, 2005, 62, 1032-1052.	0.6	65
100	Linear estimation of particle bulk parameters from multi-wavelength lidar measurements. Atmospheric Measurement Techniques, 2012, 5, 1135-1145.	1.2	65
101	Grand Challenges in Satellite Remote Sensing. Frontiers in Remote Sensing, 2021, 2, .	1.3	65
102	A study of the mixing state of black carbon in urban zone. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	63
103	Coupled retrieval of aerosol properties and land surface reflection using the Airborne Multiangle SpectroPolarimetric Imager. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7004-7026.	1.2	63
104	Retrieval of desert dust and carbonaceous aerosol emissions over Africa from POLDER/PARASOL products generated by the GRASP algorithm. Atmospheric Chemistry and Physics, 2018, 18, 12551-12580.	1.9	63
105	Toward an Operational Anthropogenic CO2 Emissions Monitoring and Verification Support Capacity. Bulletin of the American Meteorological Society, 2020, 101, E1439-E1451.	1.7	63
106	Retrieval of the real part of the refractive index of smoke particles from Sun/sky measurements during SCAR-B. Journal of Geophysical Research, 1998, 103, 31893-31902.	3.3	62
107	Vertical profiles of pure dust and mixed smoke–dust plumes inferred from inversion of multiwavelength Raman/polarization lidar data and comparison to AERONET retrievals and in situ observations. Applied Optics, 2013, 52, 3178.	0.9	61
108	Retrieval of aerosol microphysical properties from AERONET photopolarimetric measurements: 2. A new research algorithm and case demonstration. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7079-7098.	1.2	61

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109	Optimization of Numerical Inversion in Photopolarimetric Remote Sensing. , 2004, , 65-106.		60
110	A normalized description of the direct effect of key aerosol types on solar radiation as estimated from Aerosol Robotic Network aerosols and Moderate Resolution Imaging Spectroradiometer albedos. Journal of Geophysical Research, 2005, 110, .	3.3	60
111	Raman lidar observations of a Saharan dust outbreak event: Characterization of the dust optical properties and determination of particle size and microphysical parameters. Atmospheric Environment, 2012, 50, 66-78.	1.9	60
112	Remote sensing of soot carbon – Part 2: Understanding the absorption Ångström exponent. Atmospheric Chemistry and Physics, 2016, 16, 1587-1602.	1.9	60
113	Aerosol ultraviolet absorption experiment (2002 to 2004), part 2: absorption optical thickness, refractive index, and single scattering albedo. Optical Engineering, 2005, 44, 041005.	0.5	57
114	Remote sensing of aerosol water uptake. Geophysical Research Letters, 2009, 36, .	1.5	55
115	Intercomparison of Magnitudes and Trends in Anthropogenic Surface Emissions From Bottomâ€Up Inventories, Topâ€Down Estimates, and Emission Scenarios. Earth's Future, 2020, 8, e2020EF001520.	2.4	54
116	A Comprehensive Description of Multi-Term LSM for Applying Multiple a Priori Constraints in Problems of Atmospheric Remote Sensing: GRASP Algorithm, Concept, and Applications. Frontiers in Remote Sensing, 2021, 2, .	1.3	54
117	A dust outbreak episode in sub-Sahel West Africa. Journal of Geophysical Research, 2001, 106, 22923-22930.	3.3	53
118	Clear-column closure studies of aerosols and water vapor aboard the NCAR C-130 during ACE-Asia, 2001. Journal of Geophysical Research, 2003, 108, .	3.3	53
119	Physicoâ€chemical and optical properties of Sahelian and Saharan mineral dust: <i>in situ</i> measurements during the GERBILS campaign. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1193-1210.	1.0	53
120	Measurement of atmospheric optical parameters on U.S. Atlantic coast sites, ships, and Bermuda during TARFOX. Journal of Geophysical Research, 2000, 105, 9887-9901.	3.3	51
121	Retrievals of aerosol optical and microphysical properties from Imaging Polar Nephelometer scattering measurements. Atmospheric Measurement Techniques, 2017, 10, 811-824.	1.2	51
122	Retrieval of aerosol profiles combining sunphotometer and ceilometer measurements in GRASP code. Atmospheric Research, 2018, 204, 161-177.	1.8	50
123	Assessing boreal forest fire smoke aerosol impacts on U.S. air quality: A case study using multiple data sets. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	49
124	Comparative assessment of GRASP algorithm for a dust event over Granada (Spain) during ChArMEx-ADRIMEDÂ2013 campaign. Atmospheric Measurement Techniques, 2017, 10, 4439-4457.	1.2	46
125	Improved technique for data inversion: optical sizing of multicomponent aerosols. Applied Optics, 1995, 34, 8422.	2.1	45
126	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. Journal of Geophysical Research, 2003, 108, .	3.3	43

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127	Aerosol absorption over the clear-sky oceans deduced from POLDER-1 and AERONET observations. Geophysical Research Letters, 2003, 30, .	1.5	43
128	The evolution of microphysical and optical properties of an A380 contrail in the vortex phase. Atmospheric Chemistry and Physics, 2012, 12, 6629-6643.	1.9	42
129	GARRLiC and LIRIC: strengths and limitations for the characterization of dust and marine particles along with their mixtures. Atmospheric Measurement Techniques, 2017, 10, 4995-5016.	1.2	42
130	Constraining global aerosol emissions using POLDER/PARASOL satellite remote sensing observations. Atmospheric Chemistry and Physics, 2019, 19, 14585-14606.	1.9	42
131	<title>PHOTONS/AERONET sunphotometer network overview: description, activities, results</title> ., 2007, , .		40
132	Variability of aerosol properties over Eastern Europe observed from ground and satellites in the period from 2003 to 2011. Atmospheric Chemistry and Physics, 2013, 13, 6587-6602.	1.9	40
133	Sensitivity of aerosol retrieval to geometrical configuration of ground-based sun/sky radiometer observations. Atmospheric Chemistry and Physics, 2014, 14, 847-875.	1.9	40
134	Retrievals of fine mode light-absorbing carbonaceous aerosols from POLDER/PARASOL observations over East and South Asia. Remote Sensing of Environment, 2020, 247, 111913.	4.6	40
135	Inferring the composition and concentration of aerosols by combining AERONET and MPLNET data: Comparison with other measurements and utilization to evaluate GCM output. Journal of Geophysical Research, 2009, 114, .	3.3	39
136	Retrieving aerosol microphysical properties by Lidarâ€Radiometer Inversion Code (LIRIC) for different aerosol types. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4836-4858.	1.2	39
137	Synergy processing of diverse ground-based remote sensing and in situ data using the GRASP algorithm: applications to radiometer, lidar and radiosonde observations. Atmospheric Measurement Techniques, 2021, 14, 2575-2614.	1.2	38
138	Closure study on optical and microphysical properties of a mixed urban and Arctic haze air mass observed with Raman lidar and Sun photometer. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	37
139	Direct Insertion of MODIS Radiances in a Global Aerosol Transport Model. Journals of the Atmospheric Sciences, 2007, 64, 808-827.	0.6	37
140	Mixing of dust and NH <sub>3</sub> observed globally over anthropogenic dust sources. Atmospheric Chemistry and Physics, 2012, 12, 7351-7363.	1.9	37
141	Comparison of aerosol properties retrieved using GARRLiC, LIRIC, and Raman algorithms applied to multi-wavelength lidar and sun/sky-photometer data. Atmospheric Measurement Techniques, 2016, 9, 3391-3405.	1.2	37
142	Comprehensive tool for calculation of radiative fluxes: illustration of shortwave aerosol radiative effect sensitivities to the details in aerosol and underlying surface characteristics. Atmospheric Chemistry and Physics, 2016, 16, 5763-5780.	1.9	37
143	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. Frontiers in Environmental Science, 2019, 7, .	1.5	37
144	A comparative study of aerosol microphysical properties retrieved from ground-based remote sensing and aircraft in situ measurements during a Saharan dust event. Atmospheric Measurement Techniques, 2016, 9, 1113-1133.	1.2	36

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145	Remote sensing of lunar aureole with a sky camera: Adding information in the nocturnal retrieval of aerosol properties with GRASP code. Remote Sensing of Environment, 2017, 196, 238-252.	4.6	36
146	Optical properties and radiative forcing of the Eyjafjallajökull volcanic ash layer observed over Lille, France, in 2010. Journal of Geophysical Research, 2012, 117, .	3.3	35
147	Validation of SOAR VIIRS Overâ€Water Aerosol Retrievals and Context Within the Global Satellite Aerosol Data Record. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,496.	1.2	34
148	A study of the effect of non-spherical dust particles on the AVHRR aerosol optical thickness retrievals. Geophysical Research Letters, 2003, 30, .	1.5	33
149	Retrievals of Aerosol Size Distribution, Spherical Fraction, and Complex Refractive Index From Airborne In Situ Angular Light Scattering and Absorption Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7997-8024.	1.2	33
150	Validation of POLDER GRASP aerosol optical retrieval over China using SONET observations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106931.	1.1	32
151	Sunlight transmission through desert dust and marine aerosols: Diffuse light corrections to Sun photometry and pyrheliometry. Journal of Geophysical Research, 2004, 109, .	3.3	31
152	Retrieval of spatio-temporal distributions of particle parameters from multiwavelength lidar measurements using the linear estimation technique and comparison with AERONET. Atmospheric Measurement Techniques, 2013, 6, 2671-2682.	1.2	31
153	Application of aerosol optical properties to estimate aerosol type from ground-based remote sensing observation at urban area of northeastern China. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 132, 37-47.	0.6	29
154	The Fundamental Aerosol Models Over China Region: A Cluster Analysis of the Groundâ€Based Remote Sensing Measurements of Total Columnar Atmosphere. Geophysical Research Letters, 2019, 46, 4924-4932.	1.5	29
155	Different strategies to retrieve aerosol properties at night-time with the GRASP algorithm. Atmospheric Chemistry and Physics, 2019, 19, 14149-14171.	1.9	29
156	Reduction of aerosol absorption in Beijing since 2007 from MODIS and AERONET. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	27
157	Aerosol seasonal variations over urban–industrial regions in Ukraine according to AERONET and POLDER measurements. Atmospheric Measurement Techniques, 2014, 7, 1459-1474.	1.2	27
158	High temporal resolution estimates of columnar aerosol microphysical parameters from spectrum of aerosol optical depth by linear estimation: application to long-term AERONET and star-photometry measurements. Atmospheric Measurement Techniques, 2015, 8, 3117-3133.	1.2	27
159	AEROCOM and AEROSAT AAOD and SSA study – PartÂ1: Evaluation and intercomparison of satellite measurements. Atmospheric Chemistry and Physics, 2021, 21, 6895-6917.	1.9	27
160	Regional evaluation of an advanced very high resolution radiometer (AVHRR) two-channel aerosol retrieval algorithm. Journal of Geophysical Research, 2004, 109, .	3.3	26
161	Profiling of aerosol microphysical properties at several EARLINET/AERONET sites during the JulyÂ2012 ChArMEx/EMEP campaign. Atmospheric Chemistry and Physics, 2016, 16, 7043-7066.	1.9	26
162	A Correlated Multi-Pixel Inversion Approach for Aerosol Remote Sensing. Remote Sensing, 2019, 11, 746.	1.8	26

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163	Retrieval of aerosol properties from ceilometer and photometer measurements: long-term evaluation with in situ data and statistical analysis at Montsec (southern Pyrenees). Atmospheric Measurement Techniques, 2019, 12, 3255-3267.	1.2	25
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