

Oleg Dubovik

List of Publications by Year in descending order

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250
papers

31,835
citations

6250

80
h-index

5249

165
g-index

338
all docs

338
docs citations

338
times ranked

10195
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncertainty in Aerosol Optical Depth From Modern Aerosol Climate Models, Reanalyses, and Satellite Products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	15
2	Extensive characterization of aerosol optical properties and chemical component concentrations: Application of the GRASP/Component approach to long-term AERONET measurements. <i>Science of the Total Environment</i> , 2022, 812, 152553.	3.9	11
3	A satellite-measured view of aerosol component content and optical property in a haze-polluted case over North China Plain. <i>Atmospheric Research</i> , 2022, 266, 105958.	1.8	20
4	Inferring iron-oxide species content in atmospheric mineral dust from DSCOVR EPIC observations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1395-1423.	1.9	13
5	Retrieval of aerosol properties using relative radiance measurements from an all-sky camera. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 407-433.	1.2	12
6	Aerosol models from the AERONET database: application to surface reflectance validation. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1123-1144.	1.2	5
7	The polarization crossfire (PCF) sensor suite focusing on satellite remote sensing of fine particulate matter PM2.5 from space. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 286, 108217.	1.1	13
8	Analytical Prediction of Scattering Properties of Spheroidal Dust Particles With Machine Learning. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5
9	Scattering and absorbing aerosols in the climate system. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 363-379.	12.2	93
10	Properties of aerosol and surface derived from OLCI/Sentinel-3A using GRASP approach: Retrieval development and preliminary validation. <i>Remote Sensing of Environment</i> , 2022, 280, 113142.	4.6	9
11	Capability of Superspheroids for Modeling PARASOL Observations Under Dusty Sky Conditions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	1.2	10
12	The Potential of GRASP/GARRLIC Retrievals for Dust Aerosol Model Evaluation: Case Study during the PreTECT Campaign. <i>Remote Sensing</i> , 2021, 13, 873.	1.8	7
13	Grand Challenges in Satellite Remote Sensing. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	65
14	Derivation of PM10 mass concentration from advanced satellite retrieval products based on a semi-empirical physical approach. <i>Remote Sensing of Environment</i> , 2021, 256, 112319.	4.6	11
15	A Combined Lidar-Polarimeter Inversion Approach for Aerosol Remote Sensing Over Ocean. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	9
16	Synergy processing of diverse ground-based remote sensing and in situ data using the GRASP algorithm: applications to radiometer, lidar and radiosonde observations. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 2575-2614.	1.2	38
17	AEROCOM and AEROSAT AAOD and SSA study – Part 1: Evaluation and intercomparison of satellite measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6895-6917.	1.9	27
18	A Dark Target research aerosol algorithm for MODIS observations over eastern China: increasing coverage while maintaining accuracy at high aerosol loading. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3449-3468.	1.2	18

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19	Aerosol above-cloud direct radiative effect and properties in the Namibian region during the AEROSOL, RADIATION, and CLOUDS in southern Africa (AEROCLO-sA) field campaign – Multi-Viewing, Multi-Channel, Multi-Polarization (3MI) airborne simulator and sun photometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8233-8253.	1.9	2
20	Overview of the SLOPE I and II campaigns: aerosol properties retrieved with lidar and sun/sky photometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9269-9287.	1.9	12
21	Spatio-Temporal Variability of Aerosol Components, Their Optical and Microphysical Properties over North China during Winter Haze in 2012, as Derived from POLDER/PARASOL Satellite Observations. <i>Remote Sensing</i> , 2021, 13, 2682.	1.8	4
22	Characterization of temporal and spatial variability of aerosols from ground-based climatology: towards evaluation of satellite mission requirements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 268, 107627.	1.1	1
23	Improved Lorenz-Mie Look-Up Table for Lidar and Polarimeter Retrievals. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	2
24	A correlation-based inversion method for aerosol property (CIMAP) retrieval from AERONET measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107808.	1.1	0
25	Validation of the aerosol optical property products derived by the GRASP/Component approach from multi-angular polarimetric observations. <i>Atmospheric Research</i> , 2021, 263, 105802.	1.8	17
26	Vertical assessment of the mineral dust optical and microphysical properties as retrieved from the synergy between polarized micro-pulse lidar and sun/sky photometer observations using GRASP code. <i>Atmospheric Research</i> , 2021, 264, 105818.	1.8	5
27	Climate models generally underrepresent the warming by Central Africa biomass-burning aerosols over the Southeast Atlantic. <i>Science Advances</i> , 2021, 7, eabg9998.	4.7	25
28	A Comprehensive Description of Multi-Term LSM for Applying Multiple a Priori Constraints in Problems of Atmospheric Remote Sensing: GRASP Algorithm, Concept, and Applications. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	54
29	Mobile Observations by Lidar, Sun Photometer and in Situ in North China Plain. <i>EPJ Web of Conferences</i> , 2020, 237, 02024.	0.1	0
30	Retrievals of fine mode light-absorbing carbonaceous aerosols from POLDER/PARASOL observations over East and South Asia. <i>Remote Sensing of Environment</i> , 2020, 247, 111913.	4.6	40
31	Intercomparison of Magnitudes and Trends in Anthropogenic Surface Emissions From Bottom-Up Inventories, Top-Down Estimates, and Emission Scenarios. <i>Earth's Future</i> , 2020, 8, e2020EF001520.	2.4	54
32	Impact of Aerosol Vertical Distribution on Aerosol Optical Depth Retrieval from Passive Satellite Sensors. <i>Remote Sensing</i> , 2020, 12, 1524.	1.8	17
33	Climatology of Fine and Coarse Mode Aerosol Optical Thickness Over East and South Asia Derived From POLDER/PARASOL Satellite. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032665.	1.2	15
34	Synergy of Satellite- and Ground-Based Aerosol Optical Depth Measurements Using an Ensemble Kalman Filter Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031884.	1.2	11
35	Merging regional and global aerosol optical depth records from major available satellite products. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2031-2056.	1.9	98
36	Toward an Operational Anthropogenic CO ₂ Emissions Monitoring and Verification Support Capacity. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1439-E1451.	1.7	63

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37	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
38	Is the near-spherical shape the “new black” for smoke?. Atmospheric Chemistry and Physics, 2020, 20, 14005-14021.	1.9	16
39	Aerosol vertical distribution and interactions with land/sea breezes over the eastern coast of the Red Sea from lidar data and high-resolution WRF-Chem simulations. Atmospheric Chemistry and Physics, 2020, 20, 16089-16116.	1.9	24
40	Retrieval of aerosol properties from Airborne Hyper-Angular Rainbow Polarimeter (AirHARP) observations during ACEPOL 2017. Atmospheric Measurement Techniques, 2020, 13, 5207-5236.	1.2	20
41	Combined use of Mie-Raman and fluorescence lidar observations for improving aerosol characterization: feasibility experiment. Atmospheric Measurement Techniques, 2020, 13, 6691-6701.	1.2	20
42	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
43	Synergetic Observations by Ground-Based and Space Lidar Systems and Aeronet Sun-Radiometers: A Step to Advanced Regional Monitoring of Large Scale Aerosol Changes. EPJ Web of Conferences, 2020, 237, 02035.	0.1	1
44	A Laboratory Experiment for the Statistical Evaluation of Aerosol Retrieval (STEAR) Algorithms. Remote Sensing, 2019, 11, 498.	1.8	21
45	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. Frontiers in Earth Science, 2019, 7, .	0.8	98
46	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. Frontiers in Environmental Science, 2019, 7, .	1.5	37
47	A Correlated Multi-Pixel Inversion Approach for Aerosol Remote Sensing. Remote Sensing, 2019, 11, 746.	1.8	26
48	Retrieval of aerosol components directly from satellite and ground-based measurements. Atmospheric Chemistry and Physics, 2019, 19, 13409-13443.	1.9	82
49	Retrieval of 500 m Aerosol Optical Depths from MODIS Measurements over Urban Surfaces under Heavy Aerosol Loading Conditions in Winter. Remote Sensing, 2019, 11, 2218.	1.8	16
50	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
51	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
52	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
53	Long-range-transported Canadian smoke plumes in the lower stratosphere over northern France. Atmospheric Chemistry and Physics, 2019, 19, 1173-1193.	1.9	86
54	The Fundamental Aerosol Models Over China Region: A Cluster Analysis of the Ground-Based Remote Sensing Measurements of Total Columnar Atmosphere. Geophysical Research Letters, 2019, 46, 4924-4932.	1.5	29

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55	Constraining global aerosol emissions using POLDER/PARASOL satellite remote sensing observations. Atmospheric Chemistry and Physics, 2019, 19, 14585-14606.	1.9	42
56	Different strategies to retrieve aerosol properties at night-time with the GRASP algorithm. Atmospheric Chemistry and Physics, 2019, 19, 14149-14171.	1.9	29
57	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
58	Effects of the shape distribution of aerosol particles on their volumetric scattering properties and the radiative transfer through the atmosphere that includes polarization. Applied Optics, 2019, 58, 1475.	0.9	10
59	Retrieval of aerosol profiles combining sunphotometer and ceilometer measurements in GRASP code. Atmospheric Research, 2018, 204, 161-177.	1.8	50
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	Aerosol absorption measurements and retrievals in shadow2 campaign. EPJ Web of Conferences, 2018, 176, 10003.	0.1	0
62	Microscopic Observations of Core-Shell Particle Structure and Implications for Atmospheric Aerosol Remote Sensing. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,944.	1.2	12
63	Validation of SOAR VIIRS Over-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
64	Assessing Superspheroids in Modeling the Scattering Matrices of Dust Aerosols. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,917.	1.2	24
65	Aerosol absorption profiling from the synergy of lidar and sun-photometry: the ACTRIS-2 campaigns in Germany, Greece and Cyprus. EPJ Web of Conferences, 2018, 176, 08005.	0.1	5
66	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
67	Harnessing remote sensing to address critical science questions on ocean-atmosphere interactions. Elementa, 2018, 6, .	1.1	18
68	Reducing multisensor monthly mean aerosol optical depth uncertainty: 2. Optimal locations for potential ground observation deployments. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3920-3928.	1.2	5
69	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
70	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
71	Contrast in column-integrated aerosol optical properties during heating and non-heating seasons at Urumqi – Its causes and implications. Atmospheric Research, 2017, 191, 34-43.	1.8	8
72	Effect of sea breeze circulation on aerosol mixing state and radiative properties in a desert setting. Atmospheric Chemistry and Physics, 2017, 17, 11331-11353.	1.9	17

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73	Retrievals of aerosol optical and microphysical properties from Imaging Polar Nephelometer scattering measurements. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 811-824.	1.2	51
74	Studying aerosol light scattering based on aspect ratio distribution observed by fluorescence microscope. <i>Optics Express</i> , 2017, 25, A813.	1.7	6
75	Advanced characterisation of aerosol size properties from measurements of spectral optical depth using the GRASP algorithm. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3743-3781.	1.2	71
76	GARRLIC and LIRIC: strengths and limitations for the characterization of dust and marine particles along with their mixtures. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4995-5016.	1.2	42
77	Comparative assessment of GRASP algorithm for a dust event over Granada (Spain) during ChArMEx-ADRIMED2013 campaign. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4439-4457.	1.2	46
78	Study of African Dust with Multi-Wavelength Raman Lidar During "Shadow" Campaign in Senegal. <i>EPJ Web of Conferences</i> , 2016, 119, 08003.	0.1	1
79	Comparison of aerosol properties retrieved using GARRLIC, LIRIC, and Raman algorithms applied to multi-wavelength lidar and sun/sky-photometer data. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3391-3405.	1.2	37
80	Joint retrieval of aerosol and water-leaving radiance from multispectral, multiangular and polarimetric measurements over ocean. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2877-2907.	1.2	69
81	A comparative study of aerosol microphysical properties retrieved from ground-based remote sensing and aircraft in situ measurements during a Saharan dust event. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1113-1133.	1.2	36
82	Lidar-Radiometer Inversion Code (LIRIC) for the retrieval of vertical aerosol properties from combined lidar/radiometer data: development and distribution in EARLINET. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1181-1205.	1.2	92
83	Development, Production and Evaluation of Aerosol Climate Data Records from European Satellite Observations (Aerosol_cci). <i>Remote Sensing</i> , 2016, 8, 421.	1.8	131
84	Application of the Garrlic Algorithm for the Characterization of Dust and Marine Particles Utilizing the Lidar-Sunphotometer Synergy. <i>EPJ Web of Conferences</i> , 2016, 119, 23021.	0.1	2
85	Reducing multisensor satellite monthly mean aerosol optical depth uncertainty: 1. Objective assessment of current AERONET locations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13609-13627.	1.2	19
86	Remote sensing of soot carbon " Part 2: Understanding the absorption Å...ngstrÅm exponent. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1587-1602.	1.9	60
87	Remote sensing of soot carbon " Part 1: Distinguishing different absorbing aerosol species. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1565-1585.	1.9	81
88	Comprehensive tool for calculation of radiative fluxes: illustration of shortwave aerosol radiative effect sensitivities to the details in aerosol and underlying surface characteristics. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5763-5780.	1.9	37
89	Retrieval of optical and physical properties of African dust from multiwavelength Raman lidar measurements during the SHADOW campaign in Senegal. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7013-7028.	1.9	96
90	Profiling of aerosol microphysical properties at several EARLINET/AERONET sites during the July2012 ChArMEx/EMEP campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7043-7066.	1.9	26

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91	Utilization of AERONET polarimetric measurements for improving retrieval of aerosol microphysics: GSFC, Beijing and Dakar data analysis. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 179, 72-97.	1.1	23
92	Direct radiative effect by brown carbon over the Indo-Gangetic Plain. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12731-12740.	1.9	24
93	Corrigendum to "Recent trends in aerosol optical properties derived from AERONET measurements" published in <i>Atmos. Chem. Phys.</i> , 14, 12271-12289, 2014. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1599-1599.	1.9	2
94	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. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3117-3133.	1.2	27
95	Analytical algorithm for modeling polarized solar radiation transfer through the atmosphere for application in processing complex lidar and radiometer measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 151, 275-286.	1.1	1
96	Polarization of cosmic dust simulated with the rough spheroid model. <i>Planetary and Space Science</i> , 2015, 116, 30-38.	0.9	24
97	Space-based remote sensing of atmospheric aerosols: The multi-angle spectro-polarimetric frontier. <i>Earth-Science Reviews</i> , 2015, 145, 85-116.	4.0	75
98	Application of aerosol optical properties to estimate aerosol type from ground-based remote sensing observation at urban area of northeastern China. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 132, 37-47.	0.6	29
99	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.	1.2	61
100	Aerosol seasonal variations over urban industrial regions in Ukraine according to AERONET and POLDER measurements. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1459-1474.	1.2	27
101	Accounting for particle non-sphericity in modeling of mineral dust radiative properties in the thermal infrared. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 149, 219-240.	1.1	15
102	Retrieving aerosol microphysical properties by Lidar-Radiometer Inversion Code (LIRIC) for different aerosol types. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4836-4858.	1.2	39
103	Sensitivity of aerosol retrieval to geometrical configuration of ground-based sun/sky radiometer observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 847-875.	1.9	40
104	Recent trends in aerosol optical properties derived from AERONET measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12271-12289.	1.9	132
105	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. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2125-2138.	1.9	266
106	Synergetic retrieval of atmospheric aerosol from a combination of lidar and radiometer ground-based observations. , 2013, , .		0
107	Influence of sky radiance measurement errors on inversion-retrieved aerosol properties. , 2013, , .		0
108	Enhancement of aerosol characterization using synergy of lidar and sun-photometer coincident observations: the GARRLiC algorithm. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2065-2088.	1.2	153

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109	Measurements on pointing error and field of view of Cimel-318 Sun photometers in the scope of AERONET. Atmospheric Measurement Techniques, 2013, 6, 2207-2220.	1.2	20
110	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
111	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
112	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
113	Vertical profiles of pure dust and mixed smokeâ€‘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
114	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
115	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
116	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
117	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
118	Determination of aerosol optical properties from inverse methods. , 2013, , 101-136.		5
119	Development of a new data-processing method for SKYNET sky radiometer observations. Atmospheric Measurement Techniques, 2012, 5, 2723-2737.	1.2	71
120	Linear estimation of particle bulk parameters from multi-wavelength lidar measurements. Atmospheric Measurement Techniques, 2012, 5, 1135-1145.	1.2	65
121	Shortwave radiative forcing and efficiency of key aerosol types using AERONET data. Atmospheric Chemistry and Physics, 2012, 12, 5129-5145.	1.9	139
122	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
123	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
124	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
125	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
126	Fogâ€‘and cloudâ€‘induced aerosol modification observed by the Aerosol Robotic Network (AERONET). Journal of Geophysical Research, 2012, 117, .	3.3	99

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127	Optical properties and radiative forcing of the Eyjafjallaj�kull volcanic ash layer observed over Lille, France, in 2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
128	Raman lidar observations of a Saharan dust outbreak event: Characterization of the dust optical properties and determination of particle size and microphysical parameters. <i>Atmospheric Environment</i> , 2012, 50, 66-78.	1.9	60
129	Aerosol layer properties over Kyiv from AERONET/PHOTONS sunphotometer measurements during 2008�2009. <i>International Journal of Remote Sensing</i> , 2011, 32, 657-669.	1.3	11
130	Reduction of aerosol absorption in Beijing since 2007 from MODIS and AERONET. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	27
131	Assessing boreal forest fire smoke aerosol impacts on U.S. air quality: A case study using multiple data sets. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	49
132	Combined lidar/sun-radiometer remote sensing technique for studying long range aerosol transport. , 2011, , .		0
133	Physico�chemical and optical properties of Sahelian and Saharan mineral dust: <i>in situ</i> measurements during the GERBILS campaign. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1193-1210.	1.0	53
134	Statistically optimized inversion algorithm for enhanced retrieval of aerosol properties from spectral multi-angle polarimetric satellite observations. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 975-1018.	1.2	493
135	Remote sensing of aerosols by using polarized, directional and spectral measurements within the A-Train: the PARASOL mission. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1383-1395.	1.2	255
136	Absorption Angstrom Exponent in AERONET and related data as an indicator of aerosol composition. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1155-1169.	1.9	554
137	Simultaneous retrieval of aerosol and surface optical properties from combined airborne- and ground-based direct and diffuse radiometric measurements. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2777-2794.	1.9	21
138	Corrigendum to "Evaluation of black carbon estimations in global aerosol models"; published in <i>Atmos. Chem. Phys.</i> , 9, 9001-9026, 2009. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 79-81.	1.9	17
139	The inter-comparison of major satellite aerosol retrieval algorithms using simulated intensity and polarization characteristics of reflected light. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 909-932.	1.2	136
140	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	325
141	Application of randomly oriented spheroids for retrieval of dust particle parameters from multiwavelength lidar measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	107
142	Light absorption by pollution, dust, and biomass burning aerosols: a global model study and evaluation with AERONET measurements. <i>Annales Geophysicae</i> , 2009, 27, 3439-3464.	0.6	214
143	Improvements for ground-based remote sensing of atmospheric aerosol properties by additional polarimetric measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1954-1961.	1.1	79
144	Aerosol complexity in megacities: From size�resolved chemical composition to optical properties of the Beijing atmospheric particles. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	18

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145	Inferring the composition and concentration of aerosols by combining AERONET and MPLNET data: Comparison with other measurements and utilization to evaluate GCM output. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
146	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, .	3.3	123
147	An approach to estimate global biomass burning emissions of organic and black carbon from MODIS fire radiative power. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	162
148	Remote sensing of aerosol water uptake. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	55
149	Impact of dust aerosols on the radiative budget, surface heat fluxes, heating rate profiles and convective activity over West Africa during March 2006. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7143-7160.	1.9	109
150	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9001-9026.	1.9	585
151	Radiative properties of aerosol mixture observed during the dry season 2006 over M'Bour, Senegal (African Monsoon Multidisciplinary Analysis campaign). <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	74
152	Influence of Saharan dust on cloud glaciation in southern Morocco during the Saharan Mineral Dust Experiment. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	156
153	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, .	3.3	119
154	Validation of AERONET estimates of atmospheric solar fluxes and aerosol radiative forcing by ground-based broadband measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	100
155	The role of iron and black carbon in aerosol light absorption. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3623-3637.	1.9	97
156	Retrieving global aerosol sources from satellites using inverse modeling. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 209-250.	1.9	138
157	Direct Insertion of MODIS Radiances in a Global Aerosol Transport Model. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 808-827.	0.6	37
158	<title>PHOTONS/AERONET sunphotometer network overview: description, activities, results</title> . , 2007, , .		40
159	Modeling of the scattering and radiative properties of nonspherical dust-like aerosols. <i>Journal of Aerosol Science</i> , 2007, 38, 995-1014.	1.8	180
160	Mineral dust emission from the Bodélé Depression, northern Chad, during BoDEx 2005. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	149
161	Global aerosol optical properties and application to Moderate Resolution Imaging Spectroradiometer aerosol retrieval over land. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	430
162	Simultaneous retrieval of aerosol and surface properties from a combination of AERONET and satellite data. <i>Remote Sensing of Environment</i> , 2007, 107, 90-108.	4.6	97

#	ARTICLE	IF	CITATIONS
163	Fusion of MODIS-MISR aerosol inversion for estimation of aerosol absorption. Remote Sensing of Environment, 2007, 107, 81-89.	4.6	17
164	Clear-sky aerosol radiative forcing effects based on multi-site AERONET observations over Europe. Meteorology and Atmospheric Physics, 2007, 96, 277-291.	0.9	10
165	Improved characterization of aerosol properties using combined information from remote sensing, laboratory measurements and global modeling. , 2007, , .		0
166	Aerosol and surface properties characterization from joint inversion of ground-based and satellite observations. , 2007, , .		0
167	Angstrom exponent and bimodal aerosol size distributions. Journal of Geophysical Research, 2006, 111, .	3.3	630
168	A synergetic approach for estimating the local direct aerosol forcing: Application to an urban zone during the ExpA©ience sur Site pour Contraindre les ModÅles de Pollution et de Transport d'Emission (ESCOMPTE) experiment. Journal of Geophysical Research, 2006, 111, .	3.3	73
169	Dust and pollution aerosols over the Negev desert, Israel: Properties, transport, and radiative effect. Journal of Geophysical Research, 2006, 111, .	3.3	87
170	Modelling soil dust aerosol in the BodÅlÅ depression during the BoDEx campaign. Atmospheric Chemistry and Physics, 2006, 6, 4345-4359.	1.9	79
171	Aeronet's Version 2.0 quality assurance criteria. , 2006, 6408, 134.		179
172	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
173	<title>Atmospheric particulate matter variability in an industrial center from multi-wavelength lidar and Sun-sky radiometer measurements</title>. , 2006, , .		2
174	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
175	Inferring black carbon content and specific absorption from Aerosol Robotic Network (AERONET) aerosol retrievals. Journal of Geophysical Research, 2005, 110, .	3.3	145
176	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
177	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
178	Development of global aerosol models using cluster analysis of Aerosol Robotic Network (AERONET) measurements. Journal of Geophysical Research, 2005, 110, .	3.3	295
179	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
180	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

#	ARTICLE	IF	CITATIONS
181	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
182	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
183	Testing the MODIS satellite retrieval of aerosol fine-mode fraction. Journal of Geophysical Research, 2005, 110, .	3.3	80
184	Short-wave radiative effects of biomass burning aerosol during SAFARI2000. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 1423-1447.	1.0	16
185	Regional evaluation of an advanced very high resolution radiometer (AVHRR) two-channel aerosol retrieval algorithm. Journal of Geophysical Research, 2004, 109, .	3.3	26
186	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
187	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
188	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
189	Sunlight transmission through desert dust and marine aerosols: Diffuse light corrections to Sun photometry and pyr heliometry. Journal of Geophysical Research, 2004, 109, .	3.3	31
190	Measuring aerosol UV absorption optical thickness by combining use of shadowband and almucantar techniques. , 2004, , .		2
191	Retrieving sources of fine aerosols from MODIS and AERONET observations by inverting GOCART model. , 2004, , .		1
192	<title>Methodology and sample results of retrieving aerosol parameters by combined multiwavelength lidar and Sun-sky scanning measurements</title>. , 2004, 5397, 146.		5
193	Optimization of Numerical Inversion in Photopolarimetric Remote Sensing. , 2004, , 65-106.		60
194	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
195	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
196	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
197	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
198	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

#	ARTICLE	IF	CITATIONS
199	Comparison of size and morphological measurements of coarse mode dust particles from Africa. Journal of Geophysical Research, 2003, 108, .	3.3	257
200	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
201	Maritime component in aerosol optical models derived from Aerosol Robotic Network data. Journal of Geophysical Research, 2003, 108, AAC 14-1.	3.3	115
202	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
203	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
204	Aerosol absorption over the clear-sky oceans deduced from POLDER-1 and AERONET observations. Geophysical Research Letters, 2003, 30, .	1.5	43
205	High aerosol optical depth biomass burning events: A comparison of optical properties for different source regions. Geophysical Research Letters, 2003, 30, .	1.5	179
206	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
207	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
208	Microphysical and optical properties of aerosol particles in urban zone during ESCOMPTE. Atmospheric Research, 2003, 69, 73-97.	1.8	114
209	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
210	Goddard UV aerosol absorption closure experiment (2002-03). , 2003, 5156, 54.		1
211	Retrieving atmospheric aerosol parameters on the base of multiwavelength lidar and sun sky-scanning radiometer data. , 2003, 5027, 172.		2
212	Deriving aerosol parameters from absolute UV sky radiance measurements using a Brewer double spectrometer. , 2003, 5156, 323.		6
213	Measuring Sulfur Dioxide From Space: The Promise of Ozone Monitoring Instrument (OMI) on EOS-AURA Platform. , 2003, , .		0
214	Atmospheric Aerosol Optical Properties in the Persian Gulf. Journals of the Atmospheric Sciences, 2002, 59, 620-634.	0.6	177
215	Methodology to retrieve atmospheric aerosol parameters by combining ground-based measurements of multiwavelength lidar and sun sky-scanning radiometer. , 2002, 4678, 257.		13
216	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

#	ARTICLE	IF	CITATIONS
217	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.	0.6	2,558
218	Optical Properties of Atmospheric Aerosol in Maritime Environments. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 501-523.	0.6	333
219	Validation of MODIS aerosol retrieval over ocean. <i>Geophysical Research Letters</i> , 2002, 29, MOD3-1.	1.5	325
220	Remote sensing of non-aerosol absorption in cloud free atmosphere. <i>Geophysical Research Letters</i> , 2002, 29, 4-1-4-4.	1.5	10
221	Non-spherical aerosol retrieval method employing light scattering by spheroids. <i>Geophysical Research Letters</i> , 2002, 29, 54-1-54-4.	1.5	404
222	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.	1.6	10
223	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.	3.3	137
224	A dust outbreak episode in sub-Sahel West Africa. <i>Journal of Geophysical Research</i> , 2001, 106, 22923-22930.	3.3	53
225	Remote sensing of aerosol optical characteristics in sub-Sahel, West Africa. <i>Journal of Geophysical Research</i> , 2001, 106, 28347-28356.	3.3	22
226	Modified Ångström exponent for the characterization of submicrometer aerosols. <i>Applied Optics</i> , 2001, 40, 2368.	2.1	198
227	Absorption of sunlight by dust as inferred from satellite and ground-based remote sensing. <i>Geophysical Research Letters</i> , 2001, 28, 1479-1482.	1.5	294
228	Sources and distributions of dust aerosols simulated with the GOCART model. <i>Journal of Geophysical Research</i> , 2001, 106, 20255-20273.	3.3	1,620
229	Raman lidar measurements of the aerosol extinction-to-backscatter ratio over the Southern Great Plains. <i>Journal of Geophysical Research</i> , 2001, 106, 20333-20347.	3.3	87
230	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.	3.3	205
231	Smoke aerosol from biomass burning in Mexico: Hygroscopic smoke optical model. <i>Journal of Geophysical Research</i> , 2001, 106, 4831-4844.	3.3	66
232	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.	3.3	207
233	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.	3.3	161
234	Baseline maritime aerosol: Methodology to Derive the optical thickness and scattering properties. <i>Geophysical Research Letters</i> , 2001, 28, 3251-3254.	1.5	114

#	ARTICLE	IF	CITATIONS
235	Cloud-Screening and Quality Control Algorithms for the AERONET Database. Remote Sensing of Environment, 2000, 73, 337-349.	4.6	1,285
236	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
237	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
238	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
239	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
240	ILAS (Improved Limb Atmospheric Spectrometer) /ADEOS data retrieval algorithms. Advances in Space Research, 1998, 21, 393-396.	1.2	16
241	Improved technique for data inversion and its application to the retrieval algorithm for ADEOS/ILAS. Advances in Space Research, 1998, 21, 397-403.	1.2	9
242	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
243	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
244	Improved technique for data inversion: optical sizing of multicomponent aerosols. Applied Optics, 1995, 34, 8422.	2.1	45
245	<title>Improved technique for statistically optimum inversion of optical data in presence of measurements and model noise</title>. , 1994, 2309, 184.		1
246	<title>Determination of soot-like component presence from brightness spectra measurements of a cloud layer: design of cloud brightness model by means of intracLOUDS phase function measurements</title>. , 1994, , .		0
247	Specific features of the method of laser diffraction spectrometry in the conditions of anomalous diffraction. Journal Physics D: Applied Physics, 1993, 26, 728-732.	1.3	8
248	Diffuse light corrections to sunphotometry of desert dust [[and marine aerosols. , 0, , .		0
249	Aerosol Radiative Forcing: AERONET-Based Estimates. , 0, , .		7
250	GRASP: a versatile algorithm for characterizing the atmosphere. SPIE Newsroom, 0, , .	0.1	134