

Oleg Dubovik

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271
papers

25,591
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73
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157
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338
ext. papers

28,532
ext. citations

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avg, IF

6.57
L-index

#	Paper	IF	Citations
271	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
270	A flexible inversion algorithm for retrieval of aerosol optical properties from Sun and sky radiance measurements. <i>Journal of Geophysical Research</i> , 2000 , 105, 20673-20696		1620
269	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
268	Sources and distributions of dust aerosols simulated with the GOCART model. <i>Journal of Geophysical Research</i> , 2001 , 106, 20255-20273		1355
267	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
266	Cloud-Screening and Quality Control Algorithms for the AERONET Database. <i>Remote Sensing of Environment</i> , 2000 , 73, 337-349	13.2	1101
265	Application of spheroid models to account for aerosol particle nonsphericity in remote sensing of desert dust. <i>Journal of Geophysical Research</i> , 2006 , 111,		994
264	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9001-9026	6.8	510
263	Angstrom exponent and bimodal aerosol size distributions. <i>Journal of Geophysical Research</i> , 2006 , 111,		492
262	Absorption Angstrom Exponent in AERONET and related data as an indicator of aerosol composition. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1155-1169	6.8	463
261	Single-Scattering Albedo and Radiative Forcing of Various Aerosol Species with a Global Three-Dimensional Model. <i>Journal of Climate</i> , 2002 , 15, 333-352	4.4	379
260	A review of biomass burning emissions part III: intensive optical properties of biomass burning particles. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 827-849	6.8	378
259	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	4	360
258	Non-spherical aerosol retrieval method employing light scattering by spheroids. <i>Geophysical Research Letters</i> , 2002 , 29, 54-1-54-4	4.9	332
257	Global aerosol optical properties and application to Moderate Resolution Imaging Spectroradiometer aerosol retrieval over land. <i>Journal of Geophysical Research</i> , 2007 , 112,		323
256	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
255	Optical Properties of Atmospheric Aerosol in Maritime Environments. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 501-523	2.1	293

254	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. <i>Journal of Geophysical Research</i> , 2010 , 115,		276
253	Validation of MODIS aerosol retrieval over ocean. <i>Geophysical Research Letters</i> , 2002 , 29, MOD3-1	4.9	276
252	Absorption of sunlight by dust as inferred from satellite and ground-based remote sensing. <i>Geophysical Research Letters</i> , 2001 , 28, 1479-1482	4.9	253
251	Development of global aerosol models using cluster analysis of Aerosol Robotic Network (AERONET) measurements. <i>Journal of Geophysical Research</i> , 2005 , 110,		232
250	Comparison of size and morphological measurements of coarse mode dust particles from Africa. <i>Journal of Geophysical Research</i> , 2003 , 108,		230
249	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	6.8	228
248	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
247	Variability of aerosol and spectral lidar and backscatter and extinction ratios of key aerosol types derived from selected Aerosol Robotic Network locations. <i>Journal of Geophysical Research</i> , 2005 , 110,		216
246	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	4	199
245	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	2	192
244	Global atmospheric black carbon inferred from AERONET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 6319-24	11.5	182
243	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
242	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
241	Modified angström exponent for the characterization of submicrometer aerosols. <i>Applied Optics</i> , 2001 , 40, 2368-75	1.7	164
240	Atmospheric Aerosol Optical Properties in the Persian Gulf. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 620-634	2.1	163
239	Comparison of CALIPSO aerosol optical depth retrievals to AERONET measurements, and a climatology for the lidar ratio of dust. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7431-7452	6.8	158
238	Aeronet's Version 2.0 quality assurance criteria 2006 , 6408, 134		151
237	Modeling of the scattering and radiative properties of nonspherical dust-like aerosols. <i>Journal of Aerosol Science</i> , 2007 , 38, 995-1014	4.3	146

236	Combined use of satellite and surface observations to infer the imaginary part of refractive index of Saharan dust. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	146
235	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
234	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
233	Influence of Saharan dust on cloud glaciation in southern Morocco during the Saharan Mineral Dust Experiment. <i>Journal of Geophysical Research</i> , 2008 , 113,		138
232	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,		132
231	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
230	Polarimetric remote sensing of atmospheric aerosols: Instruments, methodologies, results, and perspectives. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 224, 474-511	2.1	124
229	Mineral dust emission from the BodII Depression, northern Chad, during BoDEx 2005. <i>Journal of Geophysical Research</i> , 2007 , 112,		122
228	Inferring black carbon content and specific absorption from Aerosol Robotic Network (AERONET) aerosol retrievals. <i>Journal of Geophysical Research</i> , 2005 , 110,		121
227	Aerosol physical and chemical properties retrieved from ground-based remote sensing measurements during heavy haze days in Beijing winter. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10171-10183	6.8	119
226	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
225	Retrieving global aerosol sources from satellites using inverse modeling. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 209-250	6.8	117
224	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	4	114
223	Shortwave radiative forcing and efficiency of key aerosol types using AERONET data. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 5129-5145	6.8	111
222	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
221	Development, Production and Evaluation of Aerosol Climate Data Records from European Satellite Observations (Aerosol_cci). <i>Remote Sensing</i> , 2016 , 8, 421	5	107
220	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	4	105
219	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

218	Recent trends in aerosol optical properties derived from AERONET measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12271-12289	6.8	104
217	Comparison of Moderate Resolution Imaging Spectroradiometer (MODIS) and Aerosol Robotic Network (AERONET) remote-sensing retrievals of aerosol fine mode fraction over ocean. <i>Journal of Geophysical Research</i> , 2005 , 110,		103
216	Direct radiative effect of aerosols as determined from a combination of MODIS retrievals and GOCART simulations. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		101
215	Microphysical and optical properties of aerosol particles in urban zone during ESCOMPTE. <i>Atmospheric Research</i> , 2003 , 69, 73-97	5.4	101
214	Baseline maritime aerosol: Methodology to Derive the optical thickness and scattering properties. <i>Geophysical Research Letters</i> , 2001 , 28, 3251-3254	4.9	98
213	Maritime component in aerosol optical models derived from Aerosol Robotic Network data. <i>Journal of Geophysical Research</i> , 2003 , 108, AAC 14-1		95
212	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
211	GRASP: a versatile algorithm for characterizing the atmosphere. <i>SPIE Newsroom</i> ,		94
210	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	6.8	91
209	Comparison of aerosol size distributions, radiative properties, and optical depths determined by aircraft observations and Sun photometers during SAFARI 2000. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		91
208	Application of randomly oriented spheroids for retrieval of dust particle parameters from multiwavelength lidar measurements. <i>Journal of Geophysical Research</i> , 2010 , 115,		87
207	Retrieval of aerosol microphysical and optical properties above liquid clouds from POLDER/PARASOL polarization measurements. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 991-1016	4	84
206	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
205	The role of iron and black carbon in aerosol light absorption. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3623-3637	6.8	82
204	Saharan dust over a central European EARLINET-AERONET site: Combined observations with Raman lidar and Sun photometer. <i>Journal of Geophysical Research</i> , 2003 , 108,		81
203	Absorption properties of Mediterranean aerosols obtained from multi-year ground-based remote sensing observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9195-9210	6.8	80
202	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,		80
201	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

200	Dust and pollution aerosols over the Negev desert, Israel: Properties, transport, and radiative effect. <i>Journal of Geophysical Research</i> , 2006 , 111,		79
199	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	13.2	76
198	Aerosol optical properties and direct radiative forcing based on measurements from the China Aerosol Remote Sensing Network (CARSNET) in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 405-425	6.8	72
197	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	6.8	71
196	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
195	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	2.1	70
194	Modelling soil dust aerosol in the Bodélé depression during the BoDEx campaign. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 4345-4359	6.8	70
193	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		69
192	Evaluation of the Lidar/Radiometer Inversion Code (LIRIC) to determine microphysical properties of volcanic and desert dust. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1707-1724	4	67
191	Testing the MODIS satellite retrieval of aerosol fine-mode fraction. <i>Journal of Geophysical Research</i> , 2005 , 110,		67
190	A synergetic approach for estimating the local direct aerosol forcing: Application to an urban zone during the Expérience sur Site pour Contraindre les Modèles de Pollution et de Transport d'Emission (ESCOMPTE) experiment. <i>Journal of Geophysical Research</i> , 2006 , 111,		66
189	Spatial distribution of aerosol microphysical and optical properties and direct radiative effect from the China Aerosol Remote Sensing Network. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11843-11864	6.8	65
188	Long-range-transported Canadian smoke plumes in the lower stratosphere over northern France. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 1173-1193	6.8	65
187	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,		65
186	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	4	65
185	Space-based remote sensing of atmospheric aerosols: The multi-angle spectro-polarimetric frontier. <i>Earth-Science Reviews</i> , 2015 , 145, 85-116	10.2	62
184	Remote sensing of soot carbon [Part 1: Distinguishing different absorbing aerosol species. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1565-1585	6.8	60
183	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. <i>Journal of Geophysical Research</i> , 2003 , 108, ACE 24-1-ACE 24-22		60

182	Development of a new data-processing method for SKYNET sky radiometer observations. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2723-2737	4	57
181	A study of the mixing state of black carbon in urban zone. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		57
180	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
179	Smoke aerosol from biomass burning in Mexico: Hygroscopic smoke optical model. <i>Journal of Geophysical Research</i> , 2001 , 106, 4831-4844		57
178	Retrieval of the real part of the refractive index of smoke particles from Sun/sky measurements during SCAR-B. <i>Journal of Geophysical Research</i> , 1998 , 103, 31893-31902		57
177	Merging regional and global aerosol optical depth records from major available satellite products. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2031-2056	6.8	56
176	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	4	53
175	Remote sensing of soot carbon [Part 2: Understanding the absorption] exponent. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1587-1602	6.8	52
174	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	52
173	Linear estimation of particle bulk parameters from multi-wavelength lidar measurements. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 1135-1145	4	51
172	Remote sensing of aerosol water uptake. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	51
171	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. <i>Applied Optics</i> , 2013 , 52, 3178-202	1.7	50
170	Physico-chemical and optical properties of Sahelian and Saharan mineral dust: in situ measurements during the GERBILS campaign. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011 , 137, 1193-1210	6.4	49
169	Clear-column closure studies of aerosols and water vapor aboard the NCAR C-130 during ACE-Asia, 2001. <i>Journal of Geophysical Research</i> , 2003 , 108,		49
168	Coupled retrieval of aerosol properties and land surface reflection using the Airborne Multiangle SpectroPolarimetric Imager. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 7004-7026	4.4	48
167	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	4.4	48
166	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	4	48
165	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	5.3	48

164	Aerosol ultraviolet absorption experiment (2002 to 2004), part 2: absorption optical thickness, refractive index, and single scattering albedo. <i>Optical Engineering</i> , 2005 , 44, 041005	1.1	48
163	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
162	Optimization of Numerical Inversion in Photopolarimetric Remote Sensing 2004 , 65-106		46
161	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. <i>Journal of Geophysical Research</i> , 2005 , 110,		46
160	Retrieval of aerosol components directly from satellite and ground-based measurements. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 13409-13443	6.8	45
159	Retrieval of desert dust and carbonaceous aerosol emissions over Africa from POLDER/PARASOL products generated by the GRASP algorithm. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12551-12580	6.8	44
158	A dust outbreak episode in sub-Sahel West Africa. <i>Journal of Geophysical Research</i> , 2001 , 106, 22923-22930		43
157	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		40
156	Improved technique for data inversion: optical sizing of multicomponent aerosols. <i>Applied Optics</i> , 1995 , 34, 8422-36	1.7	37
155	Retrievals of aerosol optical and microphysical properties from Imaging Polar Nephelometer scattering measurements. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 811-824	4	36
154	PHOTONS/AERONET sunphotometer network overview: description, activities, results 2007 ,		35
153	Aerosol absorption over the clear-sky oceans deduced from POLDER-1 and AERONET observations. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	35
152	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	4.4	33
151	Variability of aerosol properties over Eastern Europe observed from ground and satellites in the period from 2003 to 2011. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6587-6602	6.8	33
150	Mixing of dust and NH ₄ ⁺ observed globally over anthropogenic dust sources. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7351-7363	6.8	33
149	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
148	Sensitivity of aerosol retrieval to geometrical configuration of ground-based sun/sky radiometer observations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 847-875	6.8	32
147	Retrieval of aerosol profiles combining sunphotometer and ceilometer measurements in GRASP code. <i>Atmospheric Research</i> , 2018 , 204, 161-177	5.4	31

146	The evolution of microphysical and optical properties of an A380 contrail in the vortex phase. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6629-6643	6.8	30
145	Direct Insertion of MODIS Radiances in a Global Aerosol Transport Model. <i>Journals of the Atmospheric Sciences</i> , 2007 , 64, 808-827	2.1	30
144	Closure study on optical and microphysical properties of a mixed urban and Arctic haze air mass observed with Raman lidar and Sun photometer. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		30
143	Validation of GRASP algorithm product from POLDER/PARASOL data and assessment of multi-angular polarimetry potential for aerosol monitoring. <i>Earth System Science Data</i> , 2020 , 12, 3573-3620 ^{10.5}		30
142	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	4	30
141	Toward an Operational Anthropogenic CO ₂ Emissions Monitoring and Verification Support Capacity. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1439-E1451	6.1	29
140	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	4	29
139	Comparative assessment of GRASP algorithm for a dust event over Granada (Spain) during ChArMEx-ADRIED 2013 campaign. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 4439-4457	4	29
138	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	6.8	28
137	Sunlight transmission through desert dust and marine aerosols: Diffuse light corrections to Sun photometry and pyr heliometry. <i>Journal of Geophysical Research</i> , 2004 , 109,		28
136	Remote sensing of lunar aureole with a sky camera: Adding information in the nocturnal retrieval of aerosol properties with GRASP code. <i>Remote Sensing of Environment</i> , 2017 , 196, 238-252	13.2	27
135	Optical properties and radiative forcing of the Eyjafjallajökull volcanic ash layer observed over Lille, France, in 2010. <i>Journal of Geophysical Research</i> , 2012 , 117,		27
134	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,		27
133	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	4	27
132	Aerosol seasonal variations over urban/industrial regions in Ukraine according to AERONET and POLDER measurements. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 1459-1474	4	25
131	Retrieval of spatio-temporal distributions of particle parameters from multiwavelength lidar measurements using the linear estimation technique and comparison with AERONET. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2671-2682	4	24
130	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
129	A study of the effect of non-spherical dust particles on the AVHRR aerosol optical thickness retrievals. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	24

128	Constraining global aerosol emissions using POLDER/PARASOL satellite remote sensing observations. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14585-14606	6.8	24
127	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	2	23
126	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	7.9	23
125	Validation of POLDER GRASP aerosol optical retrieval over China using SONET observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 246, 106931	2.1	23
124	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	4	22
123	Regional evaluation of an advanced very high resolution radiometer (AVHRR) two-channel aerosol retrieval algorithm. <i>Journal of Geophysical Research</i> , 2004 , 109,		22
122	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	13.2	21
121	A Correlated Multi-Pixel Inversion Approach for Aerosol Remote Sensing. <i>Remote Sensing</i> , 2019 , 11, 7465		21
120	Profiling of aerosol microphysical properties at several EARLINET/AERONET sites during the July 2012 ChArMEx/EMEP campaign. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 7043-7066	6.8	20
119	Validation of SOAR VIIRS Over-Water Aerosol Retrievals and Context Within the Global Satellite Aerosol Data Record. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,496	4.4	20
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