Vassilis Amiridis

List of Publications by Year
in descending order

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128	5,338	76326	102487
papers	citations	40 h-index	66 g-index

189	189	189	3444
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	EARLINET: towards an advanced sustainable European aerosol lidar network. Atmospheric Measurement Techniques, 2014, 7, 2389-2409.	3.1	436
2	The automated multiwavelength Raman polarization and water-vapor lidar Polly^{XT}: the neXT generation. Atmospheric Measurement Techniques, 2016, 9, 1767-1784.	3.1	249
3	An overview of the first decade of Polly^{NET}: an emerging network of automated Raman-polarization lidars for continuous aerosol profiling. Atmospheric Chemistry and Physics, 2016, 16, 5111-5137.	4.9	212
4	Aerosol lidar intercomparison in the framework of the EARLINET project 3 Raman lidar algorithm for aerosol extinction, backscatter, and lidar ratio. Applied Optics, 2004, 43, 5370.	2.1	208
5	Measurements of Saharan dust aerosols over the Eastern Mediterranean using elastic backscatter-Raman lidar, spectrophotometric and satellite observations in the frame of the EARLINET project. Atmospheric Chemistry and Physics, 2005, 5, 2065-2079.	4.9	179
6	Aerosol lidar intercomparison in the framework of the EARLINET project 2 Aerosol backscatter algorithms. Applied Optics, 2004, 43, 977.	2.1	178
7	Optical characteristics of biomass burning aerosols over Southeastern Europe determined from UV-Raman lidar measurements. Atmospheric Chemistry and Physics, 2009, 9, 2431-2440.	4.9	136
8	Climatological aspects of aerosol optical properties in Northern Greece. Atmospheric Chemistry and Physics, 2003, 3, 2025-2041.	4.9	120
9	Optimizing CALIPSO Saharan dust retrievals. Atmospheric Chemistry and Physics, 2013, 13, 12089-12106.	4.9	120
10	Three-dimensional evolution of Saharan dust transport towards Europe based on a 9-year EARLINET-optimized CALIPSO dataset. Atmospheric Chemistry and Physics, 2017, 17, 5893-5919.	4.9	117
11	Nine-year spatial and temporal evolution of desert dust aerosols over South and East Asia as revealed by CALIOP. Atmospheric Chemistry and Physics, 2018, 18, 1337-1362.	4.9	112
12	Nine years of UV aerosol optical depth measurements at Thessaloniki, Greece. Atmospheric Chemistry and Physics, 2007, 7, 2091-2101.	4.9	107
13	Two decades of satellite observations of AOD over mainland China using ATSR-2, AATSR and MODIS/Terra: data set evaluation and large-scale patterns. Atmospheric Chemistry and Physics, 2018, 18, 1573-1592.	4.9	105
14	Validation of CALIPSO space-borne-derived attenuated backscatter coefficient profiles using a ground-based lidar in Athens, Greece. Atmospheric Measurement Techniques, 2009, 2, 513-522.	3.1	103
15	Three-year ground based measurements of aerosol optical depth over the Eastern Mediterranean: the urban environment of Athens. Atmospheric Chemistry and Physics, 2011, 11, 2145-2159.	4.9	97
16	LIVAS: a 3-D multi-wavelength aerosol/cloud database based on CALIPSO and EARLINET. Atmospheric Chemistry and Physics, 2015, 15, 7127-7153.	4.9	94
17	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.	3.1	92
18	Inter-comparison of lidar and ceilometer retrievals for aerosol and Planetary Boundary Layer profiling over Athens, Greece. Atmospheric Measurement Techniques, 2011, 4, 1261-1273.	3.1	91

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19	Dust impact on surface solar irradiance assessed with model simulations, satellite observations and ground-based measurements. Atmospheric Measurement Techniques, 2017, 10, 2435-2453.	3.1	89
20	Mediterranean intense desert dust outbreaks and their vertical structure based on remote sensing data. Atmospheric Chemistry and Physics, 2016, 16, 8609-8642.	4.9	85
21	The unprecedented 2017â€“2018 stratospheric smoke event: decay phase and aerosol properties observed with the EARLINET. Atmospheric Chemistry and Physics, 2019, 19, 15183-15198.	4.9	83
22	Optical properties of different aerosol types: seven years of combined Raman-elastic backscatter lidar measurements in Thessaloniki, Greece. Atmospheric Measurement Techniques, 2010, 3, 569-578.	3.1	80
23	A methodology for investigating dust model performance using synergistic EARLINET/AERONET dust concentration retrievals. Atmospheric Measurement Techniques, 2015, 8, 3577-3600.	3.1	76
24	The total solar eclipse of March 2006: overview. Atmospheric Chemistry and Physics, 2008, 8, 5205-5220.	4.9	74
25	CALIPSO climatological products: evaluation and suggestions from EARLINET. Atmospheric Chemistry and Physics, 2016, 16, 2341-2357.	4.9	73
26	Spatiotemporal variability and contribution of different aerosol types to the aerosol optical depth over the Eastern Mediterranean. Atmospheric Chemistry and Physics, 2016, 16, 13853-13884.	4.9	71
27	Optical and geometrical characteristics of cirrus clouds over a Southern European lidar station. Atmospheric Chemistry and Physics, 2007, 7, 5519-5530.	4.9	65
28	Smoke injection heights from agricultural burning in Eastern Europe as seen by CALIPSO. Atmospheric Chemistry and Physics, 2010, 10, 11567-11576.	4.9	59
29	Aerosol Lidar observations and model calculations of the Planetary Boundary Layer evolution over Greece, during the March 2006 Total Solar Eclipse. Atmospheric Chemistry and Physics, 2007, 7, 6181-6189.	4.9	58
30	Study of the effect of different type of aerosols on UV-B radiation from measurements during EARLINET. Atmospheric Chemistry and Physics, 2004, 4, 307-321.	4.9	56
31	Retrieval of ice-nucleating particle concentrations from lidar observations and comparison with UAV in situ measurements. Atmospheric Chemistry and Physics, 2019, 19, 11315-11342.	4.9	53
32	Spatial and seasonal variations of aerosols over China from two decades of multi-satellite observations â€“ Part 1: ATSR (1995â€“2011) and MODIS C6.1 (2000â€“2017). Atmospheric Chemistry and Physics, 2018, 18, 11389-11407.	4.9	52
33	Optical characteristics of desert dust over the East Mediterranean during summer: a case study. Annales Geophysicae, 2006, 24, 807-821.	1.6	51
34	Spatial and temporal UV irradiance and aerosol variability within the area of an OMI satellite pixel. Atmospheric Chemistry and Physics, 2009, 9, 4593-4601.	4.9	51
35	Modis Dust AeroSol (MIDAS): a global fine-resolution dust optical depth data set. Atmospheric Measurement Techniques, 2021, 14, 309-334.	3.1	51
36	Remote sensing and modelling analysis of the extreme dust storm hitting the Middle East and eastern Mediterranean in SeptemberÂ2015. Atmospheric Chemistry and Physics, 2017, 17, 4063-4079.	4.9	50

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37	Vertical profiles of aerosol mass concentration derived by unmanned airborne in situ and remote sensing instruments during dust events. Atmospheric Measurement Techniques, 2018, 11, 2897-2910.	3.1	50
38	From Tropospheric Folding to Khamsin and Foehn Winds: How Atmospheric Dynamics Advanced a Record-Breaking Dust Episode in Crete. Atmosphere, 2018, 9, 240.	2.3	49
39	Systematic lidar observations of Saharan dust layers over Athens, Greece in the frame of EARLINET project (2004â€“2006). Annales Geophysicae, 2009, 27, 3611-3620.	1.6	46
40	The potential of the synergistic use of passive and active remote sensing measurements for the validation of a regional dust model. Annales Geophysicae, 2009, 27, 3155-3164.	1.6	45
41	An automatic observation-based aerosol typing method for EARLINET. Atmospheric Chemistry and Physics, 2018, 18, 15879-15901.	4.9	45
42	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.	3.1	42
43	An exploratory study on the aerosol height retrieval from OMI measurements of the 477â€¯nm O₂â€‰â€˜â€‰O₂ spectral band using a neural network approach. Atmospheric Measurement Techniques, 2017, 10, 783-809.	3.1	41
44	A study of the hourly variability of the urban heat island effect in the Greater Athens Area during summer. Science of the Total Environment, 2015, 517, 162-177.	8.0	39
45	Optical-microphysical properties of Saharan dust aerosols and composition relationship using a multi-wavelength Raman lidar, in situ sensors and modelling: a case study analysis. Atmospheric Chemistry and Physics, 2012, 12, 4011-4032.	4.9	38
46	Multi-wavelength Raman lidar, sun photometric and aircraft measurements in combination with inversion models for the estimation of the aerosol optical and physico-chemical properties over Athens, Greece. Atmospheric Measurement Techniques, 2012, 5, 1793-1808.	3.1	37
47	Optical, microphysical, mass and geometrical properties of aged volcanic particles observed over Athens, Greece, during the EyjafjallajÃ¶kull eruption in April 2010 through synergy of Raman lidar and sunphotometer measurements. Atmospheric Chemistry and Physics, 2013, 13, 9303-9320.	4.9	33
48	Further evidence of important environmental information content in red-to-green ratios as depicted in paintings by great masters. Atmospheric Chemistry and Physics, 2014, 14, 2987-3015.	4.9	32
49	Cloud-Aerosol Transport System (CATS) 1064â€‰nm calibration and validation. Atmospheric Measurement Techniques, 2019, 12, 6241-6258.	3.1	31
50	Evaluation of satellite-derived products for the characterization of the urban thermal environment. Journal of Applied Remote Sensing, 2012, 6, 061704.	1.3	28
51	Effects on surface atmospheric photo-oxidants over Greece during the total solar eclipse event of 29 March 2006. Atmospheric Chemistry and Physics, 2007, 7, 6061-6073.	4.9	27
52	A Decade of Aerosol Optical Properties Measurements over Athens, Greece. Atmosphere, 2020, 11, 154.	2.3	27
53	Dust specific extinction cross-sections over the Eastern Mediterranean using the BSC-DREAM model and sun photometer data: the case of urban environments. Annales Geophysicae, 2009, 27, 2903-2912.	1.6	25
54	Are EARLINET and AERONET climatologies consistent? The case of Thessaloniki, Greece. Atmospheric Chemistry and Physics, 2018, 18, 11885-11903.	4.9	24

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55	Satellite retrieval of aerosol microphysical and optical parameters using neural networks: a new methodology applied to the Sahara desert dust peak. Atmospheric Measurement Techniques, 2014, 7, 3151-3175.	3.1	23
56	Aerosol absorption retrieval at ultraviolet wavelengths in a complex environment. Atmospheric Measurement Techniques, 2016, 9, 5997-6011.	3.1	22
57	An Assessment of Atmospheric and Meteorological Factors Regulating Red Sea Phytoplankton Growth. Remote Sensing, 2018, 10, 673.	4.0	22
58	Effects of dust particle sphericity and orientation on their gravitational settling in the earthâ€™s atmosphere. Journal of Aerosol Science, 2020, 150, 105634.	3.8	22
59	A First Case Study of CCN Concentrations from Spaceborne Lidar Observations. Remote Sensing, 2020, 12, 1557.	4.0	22
60	15-year variability of desert dust optical depth on global and regional scales. Atmospheric Chemistry and Physics, 2021, 21, 16499-16529.	4.9	22
61	A 3-D evaluation of the MACC reanalysis dust product over Europe, northern Africa and Middle East using CALIOP/CALIPSO dust satellite observations. Atmospheric Chemistry and Physics, 2018, 18, 8601-8620.	4.9	21
62	Statistical analysis of boundary layer heights in a suburban environment. Meteorology and Atmospheric Physics, 2009, 104, 103-111.	2.0	20
63	On-flight intercomparison of three miniature aerosol absorption sensors using unmanned aerial systems (UASs). Atmospheric Measurement Techniques, 2019, 12, 6425-6447.	3.1	20
64	Multi-sectoral impact assessment of an extreme African dust episode in the Eastern Mediterranean in March 2018. Science of the Total Environment, 2022, 843, 156861.	8.0	20
65	On the variation of aerosol properties over Finland based on the optical columnar measurements. Atmospheric Research, 2012, 116, 46-55.	4.1	19
66	Long-Term Ground-Based Measurements of Aerosol Optical Depth over Kuwait City. Remote Sensing, 2018, 10, 1807.	4.0	19
67	Evaluation of the BSC-DREAM8b regional dust model using the 3D LIVAS-CALIPSO product. Atmospheric Environment, 2018, 195, 46-62.	4.1	19
68	Quantification of the dust optical depth across spatiotemporal scales with the MIDAS global dataset (2003â€“2017). Atmospheric Chemistry and Physics, 2022, 22, 3553-3578.	4.9	19
69	Detecting volcanic sulfur dioxide plumes in the Northern Hemisphere using the Brewer spectrophotometers, other networks, and satellite observations. Atmospheric Chemistry and Physics, 2017, 17, 551-574.	4.9	18
70	Impact of dust size parameterizations on aerosol burden and radiative forcing in RegCM4. Atmospheric Chemistry and Physics, 2017, 17, 769-791.	4.9	17
71	The electrical activity of Saharan dust as perceived from surface electric field observations. Atmospheric Chemistry and Physics, 2021, 21, 927-949.	4.9	17
72	Sampling of an STT event over the Eastern Mediterranean region by lidar and electrochemical sonde. Annales Geophysicae, 2005, 23, 2039-2050.	1.6	16

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73	Aerosol microphysical retrievals from precision filter radiometer direct solar radiation measurements and comparison with AERONET. Atmospheric Measurement Techniques, 2014, 7, 2013-2025.	3.1	16
74	EARLINET evaluation of the CATS Level 2 aerosol backscatter coefficient product. Atmospheric Chemistry and Physics, 2019, 19, 11743-11764.	4.9	16
75	Is the near-spherical shape the â€œnew blackâ€•for smoke?. Atmospheric Chemistry and Physics, 2020, 20, 14005-14021.	4.9	16
76	Orientation of non spherical prolate dust particles moving vertically in the Earthâ€™s atmosphere. Journal of Aerosol Science, 2021, 151, 105657.	3.8	15
77	An EARLINET early warning system for atmospheric aerosol aviation hazards. Atmospheric Chemistry and Physics, 2020, 20, 10775-10789.	4.9	15
78	The effect of the global UV irradiance measurement accuracy on the single scattering albedo retrieval. Atmospheric Measurement Techniques, 2010, 3, 1029-1037.	3.1	14
79	Airborne verification of CALIPSO products over the Amazon: a case study of daytime observations in a complex atmospheric scene. Atmospheric Chemistry and Physics, 2014, 14, 11871-11881.	4.9	14
80	Single Scattering Albedoâ€™s Spectral Dependence Effect on UV Irradiance. Atmosphere, 2018, 9, 364.	2.3	14
81	Forecasting dust impact on solar energy using remote sensing and modeling techniques. Solar Energy, 2021, 228, 317-332.	6.1	14
82	Polarization lidar for detecting dust orientation: system design and calibration. Atmospheric Measurement Techniques, 2021, 14, 7453-7474.	3.1	14
83	Characterization of the aerosol type using simultaneous measurements of the lidar ratio and estimations of the single scattering albedo. Atmospheric Research, 2011, 101, 46-53.	4.1	13
84	Retrieval of aerosol optical depth in the visible range with a Brewer spectrophotometer in Athens. Atmospheric Measurement Techniques, 2016, 9, 1871-1888.	3.1	13
85	On the retrieval of aerosol optical depth over cryosphere using passive remote sensing. Remote Sensing of Environment, 2020, 241, 111731.	11.0	13
86	Investigation of Volcanic Emissions in the Mediterranean: â€œThe Etnaâ€“Antikythera Connectionâ€• Atmosphere, 2021, 12, 40.	2.3	11
87	Geometrical and Microphysical Properties of Clouds Formed in the Presence of Dust above the Eastern Mediterranean. Remote Sensing, 2021, 13, 5001.	4.0	11
88	Validation of LIRIC aerosol concentration retrievals using airborne measurements during a biomass burning episode over Athens. Atmospheric Research, 2017, 183, 255-267.	4.1	10
89	Assessing Sea-State Effects on Sea-Salt Aerosol Modeling in the Lower Atmosphere Using Lidar and In-Situ Measurements. Remote Sensing, 2021, 13, 614.	4.0	10
90	The eVe reference polarisation lidar system for the calibration and validation of the Aeolus L2A product. Atmospheric Measurement Techniques, 2022, 15, 2299-2323.	3.1	10

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91	Profiling aerosol optical, microphysical and hygroscopic properties in ambient conditions by combining in situ and remote sensing. Atmospheric Measurement Techniques, 2017, 10, 83-107.	3.1	9
92	Cloud icing by mineral dust and impacts to aviation safety. Scientific Reports, 2021, 11, 6411.	3.3	9
93	Synergistic Use of Remote Sensing and Modeling for Estimating Net Primary Productivity in the Red Sea With VGPM, Eppley-VGPM, and CbPM Models Intercomparison. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8717-8734.	6.3	8
94	The Potential of GRASP/GARRLiC Retrievals for Dust Aerosol Model Evaluation: Case Study during the PreTECT Campaign. Remote Sensing, 2021, 13, 873.	4.0	7
95	Measurement report: Balloon-borne in situ profiling of Saharan dust over Cyprus with the UCASS optical particle counter. Atmospheric Chemistry and Physics, 2021, 21, 6781-6797.	4.9	7
96	Dust Climatology of Turkey as a Part of the Eastern Mediterranean Basin via 9-Year CALIPSO-Derived Product. Atmosphere, 2022, 13, 733.	2.3	7
97	The potential of elastic and polarization lidars to retrieve extinction profiles. Atmospheric Measurement Techniques, 2020, 13, 893-905.	3.1	6
98	Modeling of the electrical interaction between desert dust particles and the Earthâ€™s atmosphere. Journal of Aerosol Science, 2022, 165, 106044.	3.8	6
99	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.	0.3	5
100	Modeling of Spherical Dust Particle Charging due to Ion Attachment. Frontiers in Earth Science, 2021, 9, .	1.8	5
101	Assimilating spaceborne lidar dust extinction can improve dust forecasts. Atmospheric Chemistry and Physics, 2022, 22, 535-560.	4.9	5
102	Retrieval and evaluation of tropospheric-aerosol extinction profiles using multi-axis differential optical absorption spectroscopy (MAX-DOAS) measurements over Athens, Greece. Atmospheric Measurement Techniques, 2021, 14, 749-767.	3.1	4
103	Total ozone column measurements using an ultraviolet multi-filter radiometer. International Journal of Remote Sensing, 2015, 36, 4469-4482.	2.9	3
104	Observation of Arabian and Saharan Dust in Cyprus with a New Generation of the Smart Raman Lidar Polly. EPJ Web of Conferences, 2016, 119, 27003.	0.3	3
105	Optical Properties and Biochemical Indices of Marine Particles in the Open Mediterranean Sea: The R/V Maria S. Merian Cruise, March 2018. Frontiers in Earth Science, 2021, 9, .	1.8	3
106	Vertical resolved separation of aerosol types using CALIPSO level-2 product. Proceedings of SPIE, 2011, , .	0.8	2
107	Application of the Garrlic Algorithm for the Characterization of Dust and Marine Particles Utilizing the Lidar-Sunphotometer Synergy. EPJ Web of Conferences, 2016, 119, 23021.	0.3	2
108	An automatic aerosol classification for earlinet: application and results. EPJ Web of Conferences, 2018, 176, 09012.	0.3	2

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109	Is Near-Spherical Shape â€œthe New Blackâ€•for Smoke ?. EPJ Web of Conferences, 2020, 237, 02017.	0.3	2
110	Effect of Aerosol Vertical Distribution on the Modeling of Solar Radiation. Remote Sensing, 2022, 14, 1143.	4.0	2
111	3D Structure of Saharan Dust Transport Towards Europe as Seen by CALIPSO. EPJ Web of Conferences, 2016, 119, 18007.	0.3	1
112	Vertical Profiles of Aerosol Optical and Microphysical Properties During a Rare Case of Long-range Transport of Mixed Biomass Burning-polluted Dust Aerosols from the Russian Federation-kazakhstan to Athens, Greece. EPJ Web of Conferences, 2016, 119, 18003.	0.3	1
113	Tropospheric Vertical Profiles of Aerosol Optical, Microphysical and Concentration Properties in the Frame of the Hygra-CD Campaign (Athens, Greece 2014): A Case Study of Long-Range Transport of Mixed Aerosols. EPJ Web of Conferences, 2016, 119, 23016.	0.3	1
114	PollyNET - an emerging network of automated raman-polarizarion lidars for continuous aerosolprofiling. EPJ Web of Conferences, 2018, 176, 09013.	0.3	1
115	COST Lecture 2019 AE GM Barcelona: International Network to Encourage the Use of Monitoring and Forecasting Dust Products (InDust). European Review, 2021, 29, 45-59.	0.7	1
116	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.	0.3	1
117	Optical properties of cirrus clouds at a mid-latitude EARLINET station. , 2007, , .		0
118	Utilizing The Synergy of Airborne Backscatter Lidar and In-Situ Measurements for Evaluating CALIPSO. EPJ Web of Conferences, 2016, 119, 04007.	0.3	0
119	Looking Into CALIPSO Climatological Products: Evaluation and Suggestions from EARLINET. EPJ Web of Conferences, 2016, 119, 04006.	0.3	0
120	The analysis of a complex fire event using multispaceborne observations. EPJ Web of Conferences, 2018, 176, 08017.	0.3	0
121	Earlinet validation of CATS L2 product. EPJ Web of Conferences, 2018, 176, 02005.	0.3	0
122	Studies on mineral dust using airborne lidar, ground-based remote sensing, and in situ instrumentation. EPJ Web of Conferences, 2018, 176, 10001.	0.3	0
123	ESA Airborne 3+2+2 HSRL for Aladin/Atlid CAL/VAL. , 2018, , .		0
124	Lidar Ice nuclei estimates and how they relate with airborne in-situ measurements. EPJ Web of Conferences, 2018, 176, 05018.	0.3	0
125	Polarization Lidar for Detecting Dust Orientation. EPJ Web of Conferences, 2020, 237, 02028.	0.3	0
126	The ESA-EVE Polarization Lidar for Assessing the Aeolus Aerosol Product Perfomance. EPJ Web of Conferences, 2020, 237, 07025.	0.3	0

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127	Airborne Pollen Observed by PollyXT Raman Lidar at Finokalia, Crete. EPJ Web of Conferences, 2020, 237, 02005.	0.3	0
128	Advancing the remote sensing of desert dust. , 2019, , .		0