

# Evangelos Gerasopoulos

## List of Publications by Year in descending order

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104  
papers

5,335  
citations

66234

42  
h-index

98622

67  
g-index

110  
all docs

110  
docs citations

110  
times ranked

4668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stratosphere-troposphere exchange: A review, and what we have learned from STACCATO. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	413
2	Megacities as hot spots of air pollution in the East Mediterranean. <i>Atmospheric Environment</i> , 2011, 45, 1223-1235.	1.9	239
3	Variability in regional background aerosols within the Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4575-4591.	1.9	210
4	Origin and variability of particulate matter (PM10) mass concentrations over the Eastern Mediterranean. <i>Atmospheric Environment</i> , 2006, 40, 4679-4690.	1.9	199
5	Chemical composition and sources of fine and coarse aerosol particles in the Eastern Mediterranean. <i>Atmospheric Environment</i> , 2008, 42, 6542-6550.	1.9	191
6	Raman lidar and sunphotometric measurements of aerosol optical properties over Thessaloniki, Greece during a biomass burning episode. <i>Atmospheric Environment</i> , 2003, 37, 4529-4538.	1.9	151
7	Dust transport over the eastern Mediterranean derived from Total Ozone Mapping Spectrometer, Aerosol Robotic Network, and surface measurements. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	133
8	Climatological aspects of aerosol optical properties in Northern Greece. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 2025-2041.	1.9	120
9	Ozone variability in the marine boundary layer of the eastern Mediterranean based on 7-year observations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	99
10	The effect of the total solar eclipse of 29 March 2006 on meteorological variables in Greece. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5543-5553.	1.9	99
11	Aerosol physical and optical properties in the Eastern Mediterranean Basin, Crete, from Aerosol Robotic Network data. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5399-5413.	1.9	97
12	The impact of temperature changes on summer time ozone and its precursors in the Eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3847-3864.	1.9	97
13	Three-year ground based measurements of aerosol optical depth over the Eastern Mediterranean: the urban environment of Athens. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2145-2159.	1.9	97
14	LIVAS: a 3-D multi-wavelength aerosol/cloud database based on CALIPSO and EARLINET. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7127-7153.	1.9	94
15	Sources of atmospheric aerosol from long-term measurements (5years) of chemical composition in Athens, Greece. <i>Science of the Total Environment</i> , 2015, 527-528, 165-178.	3.9	94
16	Multi-tracer approach to characterize domestic wood burning in Athens (Greece) during wintertime. <i>Atmospheric Environment</i> , 2017, 148, 89-101.	1.9	91
17	Dust impact on surface solar irradiance assessed with model simulations, satellite observations and ground-based measurements. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2435-2453.	1.2	89
18	Photochemical ozone production in the Eastern Mediterranean. <i>Atmospheric Environment</i> , 2006, 40, 3057-3069.	1.9	88

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19	Economic crisis detected from space: Air quality observations over Athens/Greece. <i>Geophysical Research Letters</i> , 2013, 40, 458-463.	1.5	88
20	A climatology of <sup>7</sup> Be at four high-altitude stations at the Alps and the Northern Apennines. <i>Atmospheric Environment</i> , 2001, 35, 6347-6360.	1.9	86
21	Long-term characterization of organic and elemental carbon in the PM <sub>2.5</sub> fraction: the case of Athens, Greece. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13313-13325.	1.9	86
22	Size-segregated mass distributions of aerosols over Eastern Mediterranean: seasonal variability and comparison with AERONET columnar size-distributions. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2551-2561.	1.9	82
23	Spatial and temporal variability of tropospheric ozone (O <sub>3</sub> ) in the boundary layer above the Aegean Sea (eastern Mediterranean). <i>Journal of Geophysical Research</i> , 2002, 107, PAU 4-1.	3.3	76
24	The total solar eclipse of March 2006: overview. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5205-5220.	1.9	74
25	Physical properties and concentration of aerosol particles over the Amazon tropical forest during background and biomass burning conditions. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 951-967.	1.9	69
26	Field Evaluation of Low-Cost PM Sensors (Purple Air PA-II) Under Variable Urban Air Quality Conditions, in Greece. <i>Atmosphere</i> , 2020, 11, 926.	1.0	67
27	Direct spectral measurements with a Brewer spectroradiometer: absolute calibration and aerosol optical depth retrieval. <i>Applied Optics</i> , 2005, 44, 1681.	2.1	64
28	The combined effect of reduced fossil fuel consumption and increasing biomass combustion on Athens' air quality, as inferred from long term CO measurements. <i>Science of the Total Environment</i> , 2017, 592, 115-123.	3.9	62
29	Sources and processes that control the submicron organic aerosol composition in an urban Mediterranean environment (Athens): a high temporal-resolution chemical composition measurement study. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 901-919.	1.9	62
30	Assessment of wood burning versus fossil fuel contribution to wintertime black carbon and carbon monoxide concentrations in Athens, Greece. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10219-10236.	1.9	61
31	Two-years of NO <sub>3</sub> radical observations in the boundary layer over the Eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 315-327.	1.9	60
32	Smoke injection heights from agricultural burning in Eastern Europe as seen by CALIPSO. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11567-11576.	1.9	59
33	Aerosol Lidar observations and model calculations of the Planetary Boundary Layer evolution over Greece, during the March 2006 Total Solar Eclipse. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 6181-6189.	1.9	58
34	Multi-year chemical composition of the fine-aerosol fraction in Athens, Greece, with emphasis on the contribution of residential heating in wintertime. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14371-14391.	1.9	57
35	Forecast, observation and modelling of a deep stratospheric intrusion event over Europe. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 763-777.	1.9	56
36	Study of the effect of different type of aerosols on UV-B radiation from measurements during EARLINET. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 307-321.	1.9	56

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37	Soil-to-plant transfer of <sup>137</sup> Cs, <sup>40</sup> K and <sup>7</sup> Be. <i>Journal of Environmental Radioactivity</i> , 1999, 45, 59-65.	0.9	54
38	Low-frequency variability of beryllium-7 surface concentrations over the Eastern Mediterranean. <i>Atmospheric Environment</i> , 2003, 37, 1745-1756.	1.9	54
39	Impact of the 2009 Attica wild fires on the air quality in urban Athens. <i>Atmospheric Environment</i> , 2012, 46, 536-544.	1.9	50
40	A complex case study of down to the surface intrusions of persistent stratospheric air over the Eastern Mediterranean. <i>Atmospheric Environment</i> , 2006, 40, 4113-4125.	1.9	48
41	Evidence of gravity waves into the atmosphere during the March 2006 total solar eclipse. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4943-4951.	1.9	48
42	Effect of Climate Change Projections on Forest Fire Behavior and Values-at-Risk in Southwestern Greece. <i>Forests</i> , 2015, 6, 2214-2240.	0.9	48
43	EARLINET observations of the 14 <sup>th</sup> May long-range dust transport event during SAMUM 2006: validation of results from dust transport modelling. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 325.	0.8	47
44	Summertime aerosol chemical composition in the Eastern Mediterranean and its sensitivity to temperature. <i>Atmospheric Environment</i> , 2012, 50, 164-173.	1.9	47
45	Observations of stratosphere-to-troposphere transport events over the eastern Mediterranean using a ground-based lidar system. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	46
46	The potential of the synergistic use of passive and active remote sensing measurements for the validation of a regional dust model. <i>Annales Geophysicae</i> , 2009, 27, 3155-3164.	0.6	45
47	Integrating in situ Measurements and City Scale Modelling to Assess the COVID-19 Lockdown Effects on Emissions and Air Quality in Athens, Greece. <i>Atmosphere</i> , 2020, 11, 1174.	1.0	45
48	Carbonaceous Aerosols in Contrasting Atmospheric Environments in Greek Cities: Evaluation of the EC-tracer Methods for Secondary Organic Carbon Estimation. <i>Atmosphere</i> , 2020, 11, 161.	1.0	43
49	Particle size distributions in the Eastern Mediterranean troposphere. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6729-6738.	1.9	38
50	Long-term visibility variation in Athens (1931-2013): a proxy for local and regional atmospheric aerosol loads. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11219-11236.	1.9	38
51	Changes in domestic heating fuel use in Greece: effects on atmospheric chemistry and radiation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10597-10618.	1.9	38
52	Long-range transport of Saharan dust and chemical transformations over the Eastern Mediterranean. <i>Atmospheric Environment</i> , 2016, 140, 592-604.	1.9	36
53	Measuring the spatial variability of black carbon in Athens during wintertime. <i>Air Quality, Atmosphere and Health</i> , 2019, 12, 1405-1417.	1.5	34
54	Coloured rain dust from Sahara Desert is still radioactive. <i>Journal of Environmental Radioactivity</i> , 2001, 55, 109-112.	0.9	32

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55	Further evidence of important environmental information content in red-to-green ratios as depicted in paintings by great masters. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2987-3015.	1.9	32
56	Slant column MAX-DOAS measurements of nitrogen dioxide, formaldehyde, glyoxal and oxygen dimer in the urban environment of Athens. <i>Atmospheric Environment</i> , 2016, 135, 118-131.	1.9	32
57	Smoke dispersion modeling over complex terrain using high resolution meteorological data and satellite observations – The FireHub platform. <i>Atmospheric Environment</i> , 2015, 119, 348-361.	1.9	29
58	Optical Properties of Near-Surface Urban Aerosols and their Chemical Tracing in a Mediterranean City (Athens). <i>Aerosol and Air Quality Research</i> , 2019, 19, 49-70.	0.9	28
59	Effects on surface atmospheric photo-oxidants over Greece during the total solar eclipse event of 29 March 2006. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 6061-6073.	1.9	27
60	A Decade of Aerosol Optical Properties Measurements over Athens, Greece. <i>Atmosphere</i> , 2020, 11, 154.	1.0	27
61	Non-methane hydrocarbon variability in Athens during wintertime: the role of traffic and heating. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16139-16154.	1.9	25
62	Dust specific extinction cross-sections over the Eastern Mediterranean using the BSC-DREAM model and sun photometer data: the case of urban environments. <i>Annales Geophysicae</i> , 2009, 27, 2903-2912.	0.6	25
63	Comparison of measured and modeled surface ozone concentrations at two different sites in Europe during the solar eclipse on August 11, 1999. <i>Atmospheric Environment</i> , 2001, 35, 4663-4673.	1.9	24
64	Simulated Summertime Regional Ground-Level Ozone Concentrations over Greece. <i>Water, Air, and Soil Pollution</i> , 2009, 196, 169-181.	1.1	23
65	Factors affecting $O_3$ and $NO_2$ photolysis frequencies measured in the eastern Mediterranean during the five-year period 2002–2006. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
66	Aerosol absorption retrieval at ultraviolet wavelengths in a complex environment. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5997-6011.	1.2	22
67	Fire risk, atmospheric chemistry and radiative forcing assessment of wildfires in eastern Mediterranean. <i>Atmospheric Environment</i> , 2014, 95, 113-125.	1.9	20
68	Variability of ozone in the Eastern Mediterranean during a 7-year study. <i>Air Quality, Atmosphere and Health</i> , 2016, 9, 461-470.	1.5	19
69	Yearlong measurements of monoterpenes and isoprene in a Mediterranean city (Athens): Natural vs anthropogenic origin. <i>Atmospheric Environment</i> , 2020, 243, 117803.	1.9	19
70	Meeting volunteer expectations – a review of volunteer motivations in citizen science and best practices for their retention through implementation of functional features in CS tools. <i>Journal of Environmental Planning and Management</i> , 2021, 64, 2089-2113.	2.4	19
71	Accelerator mass spectrometry of particle-bound $^{10}Be$ . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2004, 223-224, 601-607.	0.6	18
72	Eclipse effects on field crops and marine zooplankton: the 29 March 2006 total solar eclipse. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4665-4676.	1.9	18

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73	Assessing the contribution of regional sources to urban air pollution by applying 3D-PSCF modeling. Atmospheric Research, 2021, 248, 105187.	1.8	17
74	Aerosol microphysical retrievals from precision filter radiometer direct solar radiation measurements and comparison with AERONET. Atmospheric Measurement Techniques, 2014, 7, 2013-2025.	1.2	16
75	Radon measurements along active faults in the Langadas Basin, northern Greece. Natural Hazards and Earth System Sciences, 2001, 1, 159-164.	1.5	15
76	Radon concentrations and absorbed dose measurements in a Pleistocenic cave. Journal of Radioanalytical and Nuclear Chemistry, 2003, 258, 205-208.	0.7	15
77	The UrbEm Hybrid Method to Derive High-Resolution Emissions for City-Scale Air Quality Modeling. Atmosphere, 2021, 12, 1404.	1.0	15
78	Cesium-137 in grass from Chernobyl fallout. Journal of Environmental Radioactivity, 2005, 83, 253-257.	0.9	14
79	On the regional aspects of new particle formation in the Eastern Mediterranean: A comparative study between a background and an urban site based on long term observations. Atmospheric Research, 2020, 239, 104911.	1.8	14
80	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.	1.8	13
81	Implementation of an aggregate index to elucidate the influence of atmospheric synoptic conditions on air quality in Athens, Greece. Air Quality, Atmosphere and Health, 2020, 13, 447-458.	1.5	13
82	Assessment of the COVID-19 Lockdown Effects on Spectral Aerosol Scattering and Absorption Properties in Athens, Greece. Atmosphere, 2021, 12, 231.	1.0	13
83	Earth observation: An integral part of a smart and sustainable city. Environmental Science and Policy, 2022, 132, 296-307.	2.4	13
84	Evaluation of the LOTOS-EUROS NO <sub>x</sub> and SO <sub>2</sub> simulations using ground-based measurements and S5P/TROPOMI observations over Greece. Atmospheric Chemistry and Physics, 2021, 21, 5269-5288.	1.9	12
85	Indoor Air Quality Assessment at the Library of the National Observatory of Athens, Greece. Aerosol and Air Quality Research, 2020, 20, 889-903.	0.9	11
86	Potential health and equity co-benefits related to the mitigation policies reducing air pollution from residential wood burning in Athens, Greece. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 1144-1151.	0.9	10
87	Variability and sources of non-methane hydrocarbons at a Mediterranean urban atmosphere: The role of biomass burning and traffic emissions. Science of the Total Environment, 2021, 800, 149389.	3.9	10
88	Multiphase processes in the EC-Earth model and their relevance to the atmospheric oxalate, sulfate, and iron cycles. Geoscientific Model Development, 2022, 15, 3079-3120.	1.3	9
89	Multi-modal analysis of aerosol robotic network size distributions for remote sensing applications: dominant aerosol type cases. Atmospheric Measurement Techniques, 2014, 7, 839-858.	1.2	8
90	Analysis of long-term variation of the annual number of warmer and colder days using Mahalanobis distance metrics "A case study for Athens. Physica A: Statistical Mechanics and Its Applications, 2017, 487, 22-31.	1.2	8

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91	Online Chemical Characterization and Sources of Submicron Aerosol in the Major Mediterranean Port City of Piraeus, Greece. <i>Atmosphere</i> , 2021, 12, 1686.	1.0	7
92	ERA-PLANET, a European Network for Observing Our Changing Planet. <i>Sustainability</i> , 2017, 9, 1040.	1.6	6
93	Aerosol absorption profiling from the synergy of lidar and sun-photometry: the ACTRIS-2 campaigns in Germany, Greece and Cyprus. <i>EPJ Web of Conferences</i> , 2018, 176, 08005.	0.1	5
94	Characterization of black crust on archaeological marble from the Library of Hadrian in Athens and inferences about contributing pollution sources. <i>Journal of Cultural Heritage</i> , 2022, 53, 236-243.	1.5	5
95	Cesium-137 in air late after the Chernobyl reactor accident. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 264, 699-700.	0.7	4
96	A note on the comparison between total ozone from Oslo CTM2 and SBUV satellite data. <i>International Journal of Remote Sensing</i> , 2011, 32, 2535-2545.	1.3	4
97	Simulated air quality and pollutant budgets over Europe in 2008. <i>Science of the Total Environment</i> , 2014, 470-471, 270-281.	3.9	4
98	Retrieval and evaluation of tropospheric-aerosol extinction profiles using multi-axis differential optical absorption spectroscopy (MAX-DOAS) measurements over Athens, Greece. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 749-767.	1.2	4
99	The Atmospheric Aerosol over Western Greece-Six Years of Aerosol Observations at the Navarino Environmental Observatory. <i>Atmosphere</i> , 2021, 12, 445.	1.0	4
100	Variability and sources of NMHCs at a coastal urban location in the Piraeus Port, Greece. <i>Atmospheric Pollution Research</i> , 2022, 13, 101386.	1.8	4
101	Mechanisms of Climate Variability, Air Quality and Impacts of Atmospheric Constituents in the Mediterranean Region. <i>Advances in Global Change Research</i> , 2013, , 119-156.	1.6	3
102	Spatial variability of aerosols over Greek archaeological sites using Space-Borne Remote Sensing. <i>Journal of Cultural Heritage</i> , 2020, 46, 207-217.	1.5	3
103	Background radiation measurements in the lower atmosphere before and after Chernobyl. <i>Journal of Environmental Radioactivity</i> , 1999, 42, 87-92.	0.9	2
104	Five Years of Spatially Resolved Ground-Based MAX-DOAS Measurements of Nitrogen Dioxide in the Urban Area of Athens: Synergies with In Situ Measurements and Model Simulations. <i>Atmosphere</i> , 2021, 12, 1634.	1.0	2