

Maria Kanakidou

List of Publications by Year in descending order

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118
papers

14,013
citations

26630

56
h-index

24258

110
g-index

162
all docs

162
docs citations

162
times ranked

11204
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic aerosol and global climate modelling: a review. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1053-1123.	4.9	2,947
2	Atmospheric composition change – global and regional air quality. <i>Atmospheric Environment</i> , 2009, 43, 5268-5350.	4.1	714
3	High concentrations and photochemical fate of oxygenated hydrocarbons in the global troposphere. <i>Nature</i> , 1995, 378, 50-54.	27.8	603
4	Critical assessment of the current state of scientific knowledge, terminology, and research needs concerning the role of organic aerosols in the atmosphere, climate, and global change. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2017-2038.	4.9	447
5	Evaluating the climate and air quality impacts of short-lived pollutants. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10529-10566.	4.9	365
6	The AeroCom evaluation and intercomparison of organic aerosol in global models. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10845-10895.	4.9	363
7	The acidity of atmospheric particles and clouds. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4809-4888.	4.9	327
8	Organic aerosols in Eastern Mediterranean: components source reconciliation by using molecular markers and atmospheric back trajectories. <i>Organic Geochemistry</i> , 1996, 25, 79-96.	1.8	300
9	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2000, 36, 157-230.	3.2	283
10	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	4.9	278
11	Simultaneous global observations of glyoxal and formaldehyde from space. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	265
12	Megacities as hot spots of air pollution in the East Mediterranean. <i>Atmospheric Environment</i> , 2011, 45, 1223-1235.	4.1	239
13	Past, Present, and Future Atmospheric Nitrogen Deposition. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 2039-2047.	1.7	222
14	Secondary organic aerosol importance in the future atmosphere. <i>Atmospheric Environment</i> , 2007, 41, 4682-4692.	4.1	219
15	In-cloud oxalate formation in the global troposphere: a 3-D modeling study. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5761-5782.	4.9	218
16	Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment. <i>Atmospheric Environment</i> , 2010, 44, 670-677.	4.1	196
17	Tropospheric aerosol ionic composition in the Eastern Mediterranean region. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1997, 49, 314-326.	1.6	188
18	Atmospheric fluxes of organic N and P to the global ocean. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	179

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19	Impacts of atmospheric nutrient deposition on marine productivity: Roles of nitrogen, phosphorus, and iron. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	177
20	Tetrachloroethylene as an indicator of low Cl atom concentrations in the troposphere. <i>Geophysical Research Letters</i> , 1996, 23, 1529-1532.	4.0	176
21	The influence of natural and anthropogenic secondary sources on the glyoxal global distribution. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4965-4981.	4.9	174
22	Change in global aerosol composition since preindustrial times. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5143-5162.	4.9	168
23	The continental source of glyoxal estimated by the synergistic use of spaceborne measurements and inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8431-8446.	4.9	146
24	A reevaluation of the magnitude and impacts of anthropogenic atmospheric nitrogen inputs on the ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 289-305.	4.9	146
25	Current model capabilities for simulating black carbon and sulfate concentrations in the Arctic atmosphere: a multi-model evaluation using a comprehensive measurement data set. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9413-9433.	4.9	145
26	Particle water and pH in the eastern Mediterranean: source variability and implications for nutrient availability. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4579-4591.	4.9	142
27	Spatial and temporal variability in aerosol properties over the Mediterranean basin based on 6-year (2000–2006) MODIS data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	139
28	Pyrogenic iron: The missing link to high iron solubility in aerosols. <i>Science Advances</i> , 2019, 5, eaau7671.	10.3	128
29	Fire in the Air: Biomass Burning Impacts in a Changing Climate. <i>Critical Reviews in Environmental Science and Technology</i> , 2013, 43, 40-83.	12.8	125
30	Human-activity-enhanced formation of organic aerosols by biogenic hydrocarbon oxidation. <i>Journal of Geophysical Research</i> , 2000, 105, 9243-9354.	3.3	121
31	Microplastics and nanoplastics in the marine-atmosphere environment. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 393-405.	29.7	121
32	Megacities and Large Urban Agglomerations in the Coastal Zone: Interactions Between Atmosphere, Land, and Marine Ecosystems. <i>Ambio</i> , 2013, 42, 13-28.	5.5	117
33	The marine source of C2-C6 aliphatic hydrocarbons. <i>Journal of Atmospheric Chemistry</i> , 1988, 6, 3-20.	3.2	108
34	Atmospheric evolution of molecular-weight-separated brown carbon from biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7319-7334.	4.9	107
35	Role of the NO ₃ radicals in oxidation processes in the eastern Mediterranean troposphere during the MINOS campaign. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 169-182.	4.9	106
36	The significance of the episodic nature of atmospheric deposition to Low Nutrient Low Chlorophyll regions. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1179-1198.	4.9	106

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37	The direct effect of aerosols on solar radiation over the broader Mediterranean basin. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7165-7185.	4.9	100
38	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
39	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.	4.9	97
40	Global Modeling of the Oceanic Source of Organic Aerosols. <i>Advances in Meteorology</i> , 2010, 2010, 1-16.	1.6	93
41	Isoprene above the Eastern Mediterranean: Seasonal variation and contribution to the oxidation capacity of the atmosphere. <i>Atmospheric Environment</i> , 2007, 41, 1002-1010.	4.1	90
42	Photochemical ozone production in the Eastern Mediterranean. <i>Atmospheric Environment</i> , 2006, 40, 3057-3069.	4.1	88
43	Assessment of the MODIS Collections C005 and C004 aerosol optical depth products over the Mediterranean basin. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2987-2999.	4.9	80
44	An investigation of the atmospheric sources and sinks of methyl bromide. <i>Geophysical Research Letters</i> , 1993, 20, 133-136.	4.0	76
45	The total solar eclipse of March 2006: overview. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5205-5220.	4.9	74
46	Aerosols in atmospheric chemistry and biogeochemical cycles of nutrients. <i>Environmental Research Letters</i> , 2018, 13, 063004.	5.2	74
47	A global three-dimensional study of the fate of HCFCs and HFC-134a in the troposphere. <i>Journal of Geophysical Research</i> , 1995, 100, 18781.	3.3	70
48	Changes in dissolved iron deposition to the oceans driven by human activity: a 3-D global modelling study. <i>Biogeosciences</i> , 2015, 12, 3973-3992.	3.3	69
49	Results from the Intergovernmental Panel on Climatic Change Photochemical Model Intercomparison (PhotoComp). <i>Journal of Geophysical Research</i> , 1997, 102, 5979-5991.	3.3	68
50	Understanding the nature of atmospheric acid processing of mineral dusts in supplying bioavailable phosphorus to the oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14639-14644.	7.1	68
51	Effects of Atmospheric Processing on the Oxidative Potential of Biomass Burning Organic Aerosols. <i>Environmental Science & Technology</i> , 2019, 53, 6747-6756.	10.0	68
52	Formation of particulate sulfur species (sulfate and methanesulfonate) during summer over the Eastern Mediterranean: A modelling approach. <i>Atmospheric Environment</i> , 2007, 41, 6860-6871.	4.1	66
53	Reviews and syntheses: the GESAMP atmospheric iron deposition model intercomparison study. <i>Biogeosciences</i> , 2018, 15, 6659-6684.	3.3	63
54	Naturally driven variability in the global secondary organic aerosol over a decade. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1891-1904.	4.9	60

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55	Two-years of NO ₃ radical observations in the boundary layer over the Eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 315-327.	4.9	60
56	Bioavailable atmospheric phosphorous supply to the global ocean: a 3-D global modeling study. <i>Biogeosciences</i> , 2016, 13, 6519-6543.	3.3	60
57	Evaluation of global simulations of aerosol particle and cloud condensation nuclei number, with implications for cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8591-8617.	4.9	60
58	Marine source of atmospheric acetylene. <i>Nature</i> , 1988, 333, 51-52.	27.8	57
59	Ambient isoprene and monoterpene concentrations in a Greek fir (<i>Abies Borisii-regis</i>) forest. Reconciliation with emissions measurements and effects on measured OH concentrations. <i>Atmospheric Environment</i> , 2001, 35, 4699-4711.	4.1	56
60	Impacts of East Mediterranean megacity emissions on air quality. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6335-6355.	4.9	56
61	The photochemical source of carbon monoxide: Importance, uncertainties and feedbacks. <i>Chemosphere</i> , 1999, 1, 91-109.	1.2	54
62	Optical characteristics of desert dust over the East Mediterranean during summer: a case study. <i>Annales Geophysicae</i> , 2006, 24, 807-821.	1.6	51
63	The Present and Future of Secondary Organic Aerosol Direct Forcing on Climate. <i>Current Climate Change Reports</i> , 2018, 4, 84-98.	8.6	51
64	Summertime aerosol chemical composition in the Eastern Mediterranean and its sensitivity to temperature. <i>Atmospheric Environment</i> , 2012, 50, 164-173.	4.1	47
65	Potential evaporation trends over land between 1983–2008: driven by radiative fluxes or vapour-pressure deficit?. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7601-7616.	4.9	44
66	Collocated observations of cloud condensation nuclei, particle size distributions, and chemical composition. <i>Scientific Data</i> , 2017, 4, 170003.	5.3	44
67	Impacts of anthropogenic SO _x , NO _x and NH ₃ on acidification of coastal waters and shipping lanes. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	43
68	Atmospheric deposition of nitrogen and sulfur over southern Europe with focus on the Mediterranean and the Black Sea. <i>Atmospheric Environment</i> , 2013, 81, 660-670.	4.1	43
69	Atmospheric deposition in the Eastern Mediterranean. A driving force for ecosystem dynamics. <i>Journal of Marine Systems</i> , 2013, 109-110, 78-93.	2.1	41
70	Scale problems in global tropospheric chemistry modeling: Comparison of results obtained with a three-dimensional model, adopting longitudinally uniform and varying emissions of NO _x and NMHC. <i>Chemosphere</i> , 1993, 26, 787-801.	8.2	40
71	Importance of volatile organic compounds photochemistry over a forested area in central Greece. <i>Atmospheric Environment</i> , 2002, 36, 3137-3146.	4.1	40
72	Field observations of carbonyl sulfide deficit near the ground: Possible implication of vegetation. <i>Atmospheric Environment</i> , 1989, 23, 2159-2166.	1.0	39

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73	Changing atmospheric acidity as a modulator of nutrient deposition and ocean biogeochemistry. <i>Science Advances</i> , 2021, 7, .	10.3	39
74	Formation of HNO ₃ and NO ₃ ⁻ in the anthropogenically-influenced eastern Mediterranean marine boundary layer. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	37
75	C ₂ –C ₈ NMHCs over the Eastern Mediterranean: Seasonal variation and impact on regional oxidation chemistry. <i>Atmospheric Environment</i> , 2009, 43, 5611-5621.	4.1	36
76	Sugars in atmospheric aerosols over the Eastern Mediterranean. <i>Progress in Oceanography</i> , 2018, 163, 70-81.	3.2	36
77	Spatial and temporal analysis of black carbon aerosols in Istanbul megacity. <i>Science of the Total Environment</i> , 2014, 473-474, 451-458.	8.0	35
78	Light hydrocarbons vertical profiles and fluxes in a french rural area. <i>Atmospheric Environment</i> , 1989, 23, 921-927.	1.0	32
79	NMHC in the marine atmosphere: Preliminary results of monitoring at Amsterdam Island. <i>Journal of Atmospheric Chemistry</i> , 1990, 11, 169-178.	3.2	32
80	Sensitivity of tropospheric loads and lifetimes of short lived pollutants to fire emissions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3543-3563.	4.9	32
81	TROPOZ II: Global distributions and budgets of methane and light hydrocarbons. <i>Journal of Atmospheric Chemistry</i> , 1996, 25, 115-148.	3.2	30
82	Large gain in air quality compared to an alternative anthropogenic emissions scenario. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9771-9784.	4.9	30
83	Formation and growth of atmospheric nanoparticles in the eastern Mediterranean: results from long-term measurements and process simulations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2671-2686.	4.9	30
84	Tropospheric OH and Cl levels deduced from non-methane hydrocarbon measurements in a marine site. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4661-4673.	4.9	29
85	Ion composition of coarse and fine particles in Iasi, north-eastern Romania: Implications for aerosols chemistry in the area. <i>Atmospheric Environment</i> , 2011, 45, 906-916.	4.1	29
86	Winter weather regimes over the Mediterranean region: their role for the regional climate and projected changes in the twenty-first century. <i>Climate Dynamics</i> , 2013, 41, 551-571.	3.8	29
87	Pollution events over the East Mediterranean: Synergistic use of GOME, ground-based and sonde observations and models. <i>Atmospheric Environment</i> , 2007, 41, 7262-7273.	4.1	28
88	Aerosol acidity and liquid water content regulate the dry deposition of inorganic reactive nitrogen. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6023-6033.	4.9	28
89	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.	4.9	27
90	Observation- and model-based estimates of particulate dry nitrogen deposition to the oceans. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8189-8210.	4.9	26

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91	Saharan Dust Deposition Effects on the Microbial Food Web in the Eastern Mediterranean: A Study Based on a Mesocosm Experiment. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	24
92	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
93	A modeling study of the impact of the 2007 Greek forest fires on the gaseous pollutant levels in the Eastern Mediterranean. <i>Atmospheric Research</i> , 2014, 149, 1-17.	4.1	23
94	Non methane hydrocarbons chemistry in the atmosphere of an equatorial forest: A case of indirect photochemical production of OH radicals. <i>Geophysical Research Letters</i> , 1987, 14, 1250-1253.	4.0	22
95	Atmospheric inputs of nutrients to the Mediterranean Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 171, 104606.	1.4	21
96	Multi-sectoral impact assessment of an extreme African dust episode in the Eastern Mediterranean in March 2018. <i>Science of the Total Environment</i> , 2022, 843, 156861.	8.0	20
97	Extreme desert dust storms and COPD morbidity on the island of Crete. <i>International Journal of COPD</i> , 2019, Volume 14, 1763-1768.	2.3	18
98	Multi-model evaluation of short-lived pollutant distributions over east Asia during summer 2008. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10765-10792.	4.9	17
99	Ozone and carbon monoxide budgets over the Eastern Mediterranean. <i>Science of the Total Environment</i> , 2016, 563-564, 40-52.	8.0	15
100	Human-Driven Atmospheric Deposition of N and P Controls on the East Mediterranean Marine Ecosystem. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 1611-1619.	1.7	12
101	Improving Estimates of Sulfur, Nitrogen, and Ozone Total Deposition through Multi-Model and Measurement-Model Fusion Approaches. <i>Environmental Science & Technology</i> , 2022, 56, 2134-2142.	10.0	12
102	Factors controlling the diurnal variation of CO above a forested area in southeast Europe. <i>Atmospheric Environment</i> , 2002, 36, 3127-3135.	4.1	11
103	Increasing trends (2001–2018) in photochemical activity and secondary aerosols in Santiago, Chile. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1821512.	1.6	11
104	Description and evaluation of a detailed gas-phase chemistry scheme in the TM5-MP global chemistry transport model (r112). <i>Geoscientific Model Development</i> , 2020, 13, 5507-5548.	3.6	11
105	Atmospheric trace compounds at a European coastal site—application to CO ₂ , CH ₄ and COS flux determinations. <i>Atmospheric Environment Part A General Topics</i> , 1992, 26, 145-157.	1.3	10
106	Anthropogenic nitrogen inputs and impacts on oceanic N ₂ O fluxes in the northern Indian Ocean: The need for an integrated observation and modelling approach. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 104-113.	1.4	9
107	Impact of biomass burning and stratospheric intrusions in the remote South Pacific Ocean troposphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4075-4099.	4.9	9
108	Multiphase processes in the EC-Earth model and their relevance to the atmospheric oxalate, sulfate, and iron cycles. <i>Geoscientific Model Development</i> , 2022, 15, 3079-3120.	3.6	9

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109	China's nitrogen management. <i>Nature Geoscience</i> , 2019, 12, 403-404.	12.9	6
110	ROSACE: A Proposed European Design for the Copernicus Ocean Colour System Vicarious Calibration Infrastructure. <i>Remote Sensing</i> , 2020, 12, 1535.	4.0	5
111	Simulated air quality and pollutant budgets over Europe in 2008. <i>Science of the Total Environment</i> , 2014, 470-471, 270-281.	8.0	4
112	Atmospheric and Oceanographic Forcing Impact Particle Flux Composition and Carbon Sequestration in the Eastern Mediterranean Sea: A Three-Year Time-Series Study in the Deep Ierapetra Basin. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	4
113	Contribution of Tropical Biomass Burning to the Global Budget of Hydrocarbons, Carbon Monoxide and Tropospheric Ozone. , 1994, , 261-270.		4
114	Observations of Gas-Phase Alkylamines at a Coastal Site in the East Mediterranean Atmosphere. <i>Atmosphere</i> , 2021, 12, 1454.	2.3	4
115	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
116	Correction to "Tetrachloroethylene as an indicator of low Cl atom concentrations in the troposphere". <i>Geophysical Research Letters</i> , 1996, 23, 2713-2713.	4.0	2
117	A Graduate-Level Online Module for Teaching Remote Sensing of Tropospheric NO ₂ from Space. <i>Journal of Chemical Education</i> , 2009, 86, 750.	2.3	2
118	Synergistic Use of Retrieved Trace Constituent Distributions and Numerical Modelling. <i>Physics of Earth and Space Environments</i> , 2011, , 451-492.	0.5	1