Prodromos Zanis

List of Publications by Year
in descending order

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109 papers	3,752 citations	109321 35 h-index	161849 54 g-index
115 all docs	115 docs citations	115 times ranked	4022 citing authors

#	Article	IF	Citations
1	Regional climate hindcast simulations within EURO-CORDEX: evaluation of a WRF multi-physics ensemble. Geoscientific Model Development, 2015, 8, 603-618.	3.6	175
2	Enhanced surface ozone during the heat wave of 2013 in Yangtze River Delta region, China. Science of the Total Environment, 2017, 603-604, 807-816.	8.0	156
3	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
4	Summertime free-tropospheric ozone pool over the eastern Mediterranean/Middle East. Atmospheric Chemistry and Physics, 2014, 14, 115-132.	4.9	131
5	Ozone trends at northern mid- and high latitudes â€“ a European perspective. Annales Geophysicae, 2008, 26, 1207-1220.	1.6	128
6	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
7	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. Elementa, 2019, 7, .	3.2	103
8	Tropospheric ozone in CMIP6 simulations. Atmospheric Chemistry and Physics, 2021, 21, 4187-4218.	4.9	89
9	Reviews and perspectives of high impact atmospheric processes in the Mediterranean. Atmospheric Research, 2018, 208, 4-44.	4.1	85
10	Photochemical Activity and Solar Ultraviolet Radiation (PAUR) Modulation Factors: An overview of the project. Journal of Geophysical Research, 2002, 107, PAU 1-1.	3.3	81
11	Tropospheric ozone changes at unpolluted and semipolluted regions induced by stratospheric ozone changes. Journal of Geophysical Research, 2005, 110, .	3.3	75
12	The total solar eclipse of March 2006: overview. Atmospheric Chemistry and Physics, 2008, 8, 5205-5220.	4.9	74
13	Future climate change impacts on summer surface ozone from regional climate-air quality simulations over Europe. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	73
14	On the role of tropopause folds in summertime tropospheric ozone over the eastern Mediterranean and the Middle East. Atmospheric Chemistry and Physics, 2016, 16, 14025-14039.	4.9	71
15	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
16	Evidence of impact of aviation on cirrus cloud formation. Atmospheric Chemistry and Physics, 2003, 3, 1633-1644.	4.9	65
17	Seasonal variability of measured ozone production efficiencies in the lower free troposphere of Central Europe. Atmospheric Chemistry and Physics, 2007, 7, 223-236.	4.9	63
18	An estimate of the impact of stratosphere-to-troposphere transport (STT) on the lower free tropospheric ozone over the Alps using10Be and7Be measurements. Journal of Geophysical Research, 2003, 108, .	3.3	61

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19	Present climate trend analysis of the Etesian winds in the Aegean Sea. Theoretical and Applied Climatology, 2011, 106, 459-472.	2.8	61
20	Smoke injection heights from agricultural burning in Eastern Europe as seen by CALIPSO. Atmospheric Chemistry and Physics, 2010, 10, 11567-11576.	4.9	59
21	Recent past and future patterns of the Etesian winds based on regional scale climate model simulations. Climate Dynamics, 2014, 42, 1819-1836.	3.8	57
22	Forecast, observation and modelling of a deep stratospheric intrusion event over Europe. Atmospheric Chemistry and Physics, 2003, 3, 763-777.	4.9	56
23	Low-frequency variability of beryllium-7 surface concentrations over the Eastern Mediterranean. Atmospheric Environment, 2003, 37, 1745-1756.	4.1	54
24	Factors controlling beryllium-7 at Jungfraujoch in Switzerland. Tellus, Series B: Chemical and Physical Meteorology, 1999, 51, 789-805.	1.6	52
25	Regional climate feedback of anthropogenic aerosols over Europe using RegCM3. Climate Research, 2012, 52, 267-278.	1.1	49
26	A complex case study of down to the surface intrusions of persistent stratospheric air over the Eastern Mediterranean. Atmospheric Environment, 2006, 40, 4113-4125.	4.1	48
27	Relationship of suicide rates with climate and economic variables in Europe during 2000â€“2012. Annals of General Psychiatry, 2016, 15, 19.	2.7	48
28	Analysis of an ensemble of present day and future regional climate simulations for Greece. International Journal of Climatology, 2009, 29, 1614-1633.	3.5	47
29	Observations of stratosphere-to-troposphere transport events over the eastern Mediterranean using a ground-based lidar system. Journal of Geophysical Research, 2003, 108, .	3.3	46
30	Differences between the MODIS Collection 6 and 5.1 aerosol datasets over the greater Mediterranean region. Atmospheric Environment, 2016, 147, 310-319.	4.1	46
31	A high resolution satellite view of surface solar radiation over the climatically sensitive region of Eastern Mediterranean. Atmospheric Research, 2017, 188, 107-121.	4.1	46
32	Modelling the effects of climate change on air quality over Central and Eastern Europe: concept, evaluation and projections. Climate Research, 2012, 53, 179-203.	1.1	45
33	On the turnaround of stratospheric ozone trends deduced from the reevaluated Umkehr record of Arosa, Switzerland. Journal of Geophysical Research, 2006, 111, .	3.3	44
34	Changes in surface UV solar irradiance and ozone over the balkans during the eclipse of August 11, 1999. Advances in Space Research, 2001, 27, 1955-1963.	2.6	43
35	Decadal regional air quality simulations over Europe in present climate: near surface ozone sensitivity to external meteorological forcing. Atmospheric Chemistry and Physics, 2010, 10, 11805-11821.	4.9	41
36	Detection of NO₂ pollution plumes from individual ships with the TROPOMI/S5P satellite sensor. Environmental Research Letters, 2020, 15, 124037.	5.2	40

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37	A sensitivity study of the Regional Climate Model (RegCM3) to the convective scheme with emphasis in central eastern and southeastern Europe. Theoretical and Applied Climatology, 2009, 97, 327-337.	2.8	38
38	Factors affecting the comparisons of planetary boundary layer height retrievals from CALIPSO, ECMWF and radiosondes over Thessaloniki, Greece. Atmospheric Environment, 2013, 74, 360-366.	4.1	38
39	Title is missing!. Journal of Atmospheric Chemistry, 2000, 37, 1-27.	3.2	37
40	A deep stratospheric intrusion event down to the earthâ€™s surface of the megacity of Athens. Meteorology and Atmospheric Physics, 2010, 109, 9-18.	2.0	35
41	Evaluation of near-surface ozone over Europe from the MACC reanalysis. Geoscientific Model Development, 2015, 8, 2299-2314.	3.6	34
42	A deep stratosphere-to-troposphere ozone transport event over Europe simulated in CAMS global and regional forecast systems: analysis and evaluation. Atmospheric Chemistry and Physics, 2018, 18, 15515-15534.	4.9	34
43	Modeling and mapping temperature and precipitation climate data in Greece using topographical and geographical parameters. Theoretical and Applied Climatology, 2014, 118, 133-146.	2.8	33
44	State space analysis of changing seasonal ozone cycles (1988-1997) at Jungfraujoch (3580 m above sea) Tj ETQq0 0 0 rgBT /Overlock 1	3.3	32
45	On the ability of RegCM4 regional climate model to simulate surface solar radiation patterns over Europe: an assessment using satellite-based observations. Atmospheric Chemistry and Physics, 2015, 15, 13195-13216.	4.9	32
46	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. Atmospheric Chemistry and Physics, 2020, 20, 9641-9663.	4.9	30
47	Evaluation of near surface ozone in air quality simulations forced by a regional climate model over Europe for the period 1991â€“2000. Atmospheric Environment, 2011, 45, 6489-6500.	4.1	29
48	Smoke dispersion modeling over complex terrain using high resolution meteorological data and satellite observations â€“ The FireHub platform. Atmospheric Environment, 2015, 119, 348-361.	4.1	29
49	The Etesians: from observations to reanalysis. Climate Dynamics, 2016, 47, 1569-1585.	3.8	29
50	Effects of climate change on ozone and Âparticulate matter over Central and Eastern Europe. Climate Research, 2011, 50, 51-68.	1.1	29
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 study on the direct effect of anthropogenic aerosols on near surface air temperature over Southeastern Europe during summer 2000 based on regional climate modeling. Annales Geophysicae, 2009, 27, 3977-3988.	1.6	27
53	Climate change penalty and benefit on surface ozone: a global perspective based on CMIP6 earth system models. Environmental Research Letters, 2022, 17, 024014.	5.2	27
54	Changes in tropospheric composition and air quality due to stratospheric ozone depletionThis article is published as part of the United Nations Environmental Programme: Environmental effects of ozone depletion and its interactions with climate change: 2002 assessment.. Photochemical and Photobiological Sciences, 2003, 2, 62.	2.9	26

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55	On the impact of future climate change on tropopause folds and tropospheric ozone. Atmospheric Chemistry and Physics, 2019, 19, 14387-14401.	4.9	26
56	On the relationship of HO2+ RO2withj(O1D) during the Free Tropospheric Experiment (FREETEX '96) at the Jungfraujoch Observatory(3580 m above sea level) in the Swiss Alps. Journal of Geophysical Research, 1999, 104, 26913-26925.	3.3	25
57	Evaluating the impact of chemical boundary conditions on near surface ozone in regional climateâ€“air quality simulations over Europe. Atmospheric Research, 2013, 134, 116-130.	4.1	25
58	Transient high-resolution regional climate simulation for Greece over the period 1960-2100: evaluation and future projections. Climate Research, 2015, 64, 123-140.	1.1	25
59	A modeling study of the impact of the 2007 Greek forest fires on the gaseous pollutant levels in the Eastern Mediterranean. Atmospheric Research, 2014, 149, 1-17.	4.1	23
60	Climate change but not unemployment explains the changing suicidality in Thessaloniki Greece (2000â€“2012). Journal of Affective Disorders, 2016, 193, 331-338.	4.1	23
61	A First Case Study of CCN Concentrations from Spaceborne Lidar Observations. Remote Sensing, 2020, 12, 1557.	4.0	22
62	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
63	Direct and semi-direct radiative effect of North African dust in present and future regional climate simulations. Climate Dynamics, 2019, 53, 4311-4336.	3.8	19
64	A complex aerosol transport event over Europe during the 2017 Storm Ophelia in CAMS forecast systems: analysis and evaluation. Atmospheric Chemistry and Physics, 2020, 20, 13557-13578.	4.9	19
65	Accelerator mass spectrometry of particle-bound 10Be. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 601-607.	1.4	18
66	Fast responses on pre-industrial climate from present-day aerosols in a CMIP6 multi-model study. Atmospheric Chemistry and Physics, 2020, 20, 8381-8404.	4.9	18
67	A study on natural and manmade global interannual fluctuations of cirrus cloud cover for the period 1984â€“2004. Atmospheric Chemistry and Physics, 2007, 7, 2631-2642.	4.9	17
68	Impact of dust size parameterizations on aerosol burden and radiative forcing in RegCM4. Atmospheric Chemistry and Physics, 2017, 17, 769-791.	4.9	17
69	Future Climate Change Impact on Urban Heat Island in Two Mediterranean Cities Based on High-Resolution Regional Climate Simulations. Atmosphere, 2021, 12, 884.	2.3	17
70	Sampling of an STT event over the Eastern Mediterranean region by lidar and electrochemical sonde. Annales Geophysicae, 2005, 23, 2039-2050.	1.6	16
71	Statistical downscaling of daily precipitation over Greece. International Journal of Climatology, 2008, 28, 679-691.	3.5	16
72	Twentyâ€Firstâ€Century Changes in the Eastern Mediterranean Etesians and Associated Midlatitude Atmospheric Circulation. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12741-12754.	3.3	14

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73	On the link between the Etesian winds, tropopause folds and tropospheric ozone over the Eastern Mediterranean during summer. Atmospheric Research, 2021, 248, 105161.	4.1	14
74	Extreme total column ozone events and effects on UV solar radiation at Thessaloniki, Greece. Theoretical and Applied Climatology, 2016, 126, 505-517.	2.8	13
75	Sensitivity analysis of RegCM4 model: present time simulations over the Mediterranean. Theoretical and Applied Climatology, 2019, 136, 1185-1208.	2.8	13
76	Implications of COVID-19 Restriction Measures in Urban Air Quality of Thessaloniki, Greece: A Machine Learning Approach. Atmosphere, 2021, 12, 1500.	2.3	13
77	A Global Climatology of Tropopause Folds in CAMS and MERRAâ€2 Reanalyses. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034115.	3.3	12
78	Investigating the sensitivity to resolving aerosol interactions in downscaling regional model experiments with WRFv3.8.1 over Europe. Geoscientific Model Development, 2020, 13, 2511-2532.	3.6	12
79	Evidence for an earlier greenhouse cooling effect in the stratosphere before 1980 over the Northern Hemisphere. Atmospheric Chemistry and Physics, 2014, 14, 7705-7720.	4.9	11
80	Etesians and the summer circulation over East Mediterranean in Coupled Model Intercomparison Project Phase 5 simulations: Connections to the Indian summer monsoon. International Journal of Climatology, 2020, 40, 1118-1131.	3.5	11
81	Investigation of Volcanic Emissions in the Mediterranean: â€œThe Etnaâ€“Antikythera Connectionâ€• Atmosphere, 2021, 12, 40.	2.3	11
82	On the ability of RCMs to capture the circulation pattern of Etesians. Climate Dynamics, 2018, 51, 1687-1706.	3.8	10
83	Evaluating near-surface ozone levels simulated from MACC global and regional modelling systems in Eastern Mediterranean under the influence of Etesian winds. Atmospheric Research, 2018, 208, 191-200.	4.1	10
84	A correction of the recent air-temperature record at the historical meteorological station of the National Observatory of Athens (NOA) due to instrument change. Theoretical and Applied Climatology, 2009, 97, 385-389.	2.8	9
85	Near-surface ozone trends over Europe in RegCM3/CAMx simulations for the time period 1996â€“2006. Atmospheric Environment, 2014, 97, 6-18.	4.1	9
86	Impact of Tropospheric Ozone on Summer Climate in China. Journal of Meteorological Research, 2018, 32, 279-287.	2.4	6
87	Alteration of the Ecohydrological Status of the Intermittent Flow Rivers and Ephemeral Streams due to the Climate Change Impact (Case Study: Tsiknias River). Hydrology, 2021, 8, 43.	3.0	5
88	Search for Man-Made Cirrus Contrails over Southeast Asia. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 459.	0.6	5
89	Mapping of Surface Ozone Seasonality and Trends Across Europe During 1997â€“2006 Through Kriging Interpolation to Observational Data. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	4
90	Winter anticyclonic blocking effects over Europe during 1960â€“2000 from an ensemble of regional climate models. Climate Research, 2013, 57, 81-91.	1.1	4

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91	A process-oriented evaluation of CAMS reanalysis ozone during tropopause folds over Europe for the period 2003â€“2018. Atmospheric Chemistry and Physics, 2022, 22, 6275-6289.	4.9	4
92	Simulating Extreme Etesians over the Aegean and Implications for Wind Energy Production in Southeastern Europe. Journal of Applied Meteorology and Climatology, 2018, 57, 1123-1134.	1.5	3
93	The Southeast Asian monsoon and El NiÃ±oâ€“Southern Oscillation impact on the summer atmospheric circulation of East Mediterranean during 20th century based on <scp>ERAâ€20C</scp> and <scp>CMIP5</scp> simulations. International Journal of Climatology, 2022, 42, 4893-4908.	3.5	2
94	3D Structure of Saharan Dust Transport Towards Europe as Seen by CALIPSO. EPJ Web of Conferences, 2016, 119, 18007.	0.3	1
95	A 3-D Evaluation of the MACC Reanalysis Dust Product Over Europe Using CALIOP/CALIPSO Satellite Observations. Springer Atmospheric Sciences, 2017, , 795-800.	0.3	1
96	Evaluation of Summer Temperature and Precipitation of EURO-CORDEX Regional Climate Simulations. Springer Atmospheric Sciences, 2017, , 707-712.	0.3	1
97	Evaluating the Performance of the RegCM-Chem4 Model in the Simulation of Ozone Levels During Heat Waves in China. Springer Atmospheric Sciences, 2017, , 1051-1057.	0.3	1
98	Performance of RegCM4 Model During Heat Wavesâ€”A Case Study for China. Springer Atmospheric Sciences, 2017, , 129-135.	0.3	1
99	Physics Parameterizations of Regional Climate Model RegCM4: Sensitivity to Convective Precipitation Schemes. Springer Atmospheric Sciences, 2017, , 649-654.	0.3	0
100	Evaluation of Regional Climate Model Surface Solar Radiation Patterns Over Europe Using Satellite-Based Observations and Radiative Transfer Calculations. Springer Atmospheric Sciences, 2017, , 701-706.	0.3	0
101	Do RCMs Accurately Simulate the Etesians Climatology?. Springer Atmospheric Sciences, 2017, , 591-597.	0.3	0
102	Estimation of the Mid and Late Century Extreme Summer Winds Over the Eastern Mediterranean from EURO-CORDEX Models. Environmental Science and Engineering, 2021, , 929-933.	0.2	0
103	Is the Last Years Abrupt Warming in the National Observatory of Athens Records a Climate Change Manifestation?. Global Nest Journal, 2013, 9, 107-116.	0.1	0
104	An Analysis of Identification of Stratospheric Intrusions and Their Influence on Ozone Distribution Over Eastern Mediterranean Using MACC Reanalysis. Springer Atmospheric Sciences, 2017, , 963-968.	0.3	0
105	An Assessment of Near Surface Ozone Over Europe from the Global CAMS Interim Reanalysis. Springer Atmospheric Sciences, 2017, , 969-974.	0.3	0
106	Seasonal Variations of the Mineralogical Composition and the Organic Matter Content of Falling Dust in Thessaloniki During 2012-13. Springer Atmospheric Sciences, 2017, , 949-956.	0.3	0
107	The DAPHNE Conceptual Model for Designing a Precipitation Enhancement Project in Thessaly, Greece. Springer Atmospheric Sciences, 2017, , 287-293.	0.3	0
108	Simulated Dust Over the Sahara and Mediterranean with a Regional Climate Model (RegCM4). Springer Atmospheric Sciences, 2017, , 615-620.	0.3	0

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109	Evaluation of Ozone Levels from MACC Global and Regional Modelling Systems Over Eastern Mediterraneanâ€"The Influence of Etesian Winds. Springer Atmospheric Sciences, 2017, , 1059-1065.	0.3	0