

Prodromos Zanis

List of Publications by Year in descending order

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108
papers

3,752
citations

125106

35
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182931

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115
all docs

115
docs citations

115
times ranked

4415
citing authors

#	ARTICLE	IF	CITATIONS
1	The Southeast Asian monsoon and El Niño Southern Oscillation impact on the summer atmospheric circulation of East Mediterranean during 20th century based on <scp>ERA20C</scp> and <scp>CMIP5</scp> simulations. International Journal of Climatology, 2022, 42, 4893-4908.	1.5	2
2	Climate change penalty and benefit on surface ozone: a global perspective based on CMIP6 earth system models. Environmental Research Letters, 2022, 17, 024014.	2.2	27
3	A process-oriented evaluation of CAMS reanalysis ozone during tropopause folds over Europe for the period 2003–2018. Atmospheric Chemistry and Physics, 2022, 22, 6275-6289.	1.9	4
4	On the link between the Etesian winds, tropopause folds and tropospheric ozone over the Eastern Mediterranean during summer. Atmospheric Research, 2021, 248, 105161.	1.8	14
5	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.	0.1	0
6	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.	1.3	5
7	Tropospheric ozone in CMIP6 simulations. Atmospheric Chemistry and Physics, 2021, 21, 4187-4218.	1.9	89
8	A Global Climatology of Tropopause Folds in CAMS and MERRA-2 Reanalyses. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034115.	1.2	12
9	Future Climate Change Impact on Urban Heat Island in Two Mediterranean Cities Based on High-Resolution Regional Climate Simulations. Atmosphere, 2021, 12, 884.	1.0	17
10	Investigation of Volcanic Emissions in the Mediterranean: “The Etna–Antikythera Connection”. Atmosphere, 2021, 12, 40.	1.0	11
11	Implications of COVID-19 Restriction Measures in Urban Air Quality of Thessaloniki, Greece: A Machine Learning Approach. Atmosphere, 2021, 12, 1500.	1.0	13
12	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.	1.5	11
13	Fast responses on pre-industrial climate from present-day aerosols in a CMIP6 multi-model study. Atmospheric Chemistry and Physics, 2020, 20, 8381-8404.	1.9	18
14	A First Case Study of CCN Concentrations from Spaceborne Lidar Observations. Remote Sensing, 2020, 12, 1557.	1.8	22
15	Detection of NO ₂ pollution plumes from individual ships with the TROPOMI/S5P satellite sensor. Environmental Research Letters, 2020, 15, 124037.	2.2	40
16	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.	1.9	19
17	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. Atmospheric Chemistry and Physics, 2020, 20, 9641-9663.	1.9	30
18	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.	1.3	12

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19	Sensitivity analysis of RegCM4 model: present time simulations over the Mediterranean. Theoretical and Applied Climatology, 2019, 136, 1185-1208.	1.3	13
20	Twenty-First-Century Changes in the Eastern Mediterranean Etesians and Associated Midlatitude Atmospheric Circulation. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12741-12754.	1.2	14
21	Direct and semi-direct radiative effect of North African dust in present and future regional climate simulations. Climate Dynamics, 2019, 53, 4311-4336.	1.7	19
22	On the impact of future climate change on tropopause folds and tropospheric ozone. Atmospheric Chemistry and Physics, 2019, 19, 14387-14401.	1.9	26
23	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. Elementa, 2019, 7, .	1.1	103
24	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.	0.6	3
25	On the ability of RCMs to capture the circulation pattern of Etesians. Climate Dynamics, 2018, 51, 1687-1706.	1.7	10
26	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.	1.8	10
27	Reviews and perspectives of high impact atmospheric processes in the Mediterranean. Atmospheric Research, 2018, 208, 4-44.	1.8	85
28	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.	1.9	34
29	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.	1.9	21
30	Impact of Tropospheric Ozone on Summer Climate in China. Journal of Meteorological Research, 2018, 32, 279-287.	0.9	6
31	A high resolution satellite view of surface solar radiation over the climatically sensitive region of Eastern Mediterranean. Atmospheric Research, 2017, 188, 107-121.	1.8	46
32	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.	3.9	156
33	Physics Parameterizations of Regional Climate Model RegCM4: Sensitivity to Convective Precipitation Schemes. Springer Atmospheric Sciences, 2017, , 649-654.	0.4	0
34	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.	0.4	0
35	A 3-D Evaluation of the MACC Reanalysis Dust Product Over Europe Using CALIOP/CALIPSO Satellite Observations. Springer Atmospheric Sciences, 2017, , 795-800.	0.4	1
36	Do RCMs Accurately Simulate the Etesians Climatology?. Springer Atmospheric Sciences, 2017, , 591-597.	0.4	0

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37	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.	1.9	117
38	Impact of dust size parameterizations on aerosol burden and radiative forcing in RegCM4. Atmospheric Chemistry and Physics, 2017, 17, 769-791.	1.9	17
39	Evaluation of Summer Temperature and Precipitation of EURO-CORDEX Regional Climate Simulations. Springer Atmospheric Sciences, 2017, , 707-712.	0.4	1
40	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.	0.4	0
41	An Assessment of Near Surface Ozone Over Europe from the Global CAMS Interim Reanalysis. Springer Atmospheric Sciences, 2017, , 969-974.	0.4	0
42	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.	0.4	0
43	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.	0.4	1
44	The DAPHNE Conceptual Model for Designing a Precipitation Enhancement Project in Thessaly, Greece. Springer Atmospheric Sciences, 2017, , 287-293.	0.4	0
45	Performance of RegCM4 Model During Heat Waves – A Case Study for China. Springer Atmospheric Sciences, 2017, , 129-135.	0.4	1
46	Simulated Dust Over the Sahara and Mediterranean with a Regional Climate Model (RegCM4). Springer Atmospheric Sciences, 2017, , 615-620.	0.4	0
47	Evaluation of Ozone Levels from MACC Global and Regional Modelling Systems Over Eastern Mediterranean – The Influence of Etesian Winds. Springer Atmospheric Sciences, 2017, , 1059-1065.	0.4	0
48	3D Structure of Saharan Dust Transport Towards Europe as Seen by CALIPSO. EPJ Web of Conferences, 2016, 119, 18007.	0.1	1
49	The Etesians: from observations to reanalysis. Climate Dynamics, 2016, 47, 1569-1585.	1.7	29
50	Differences between the MODIS Collection 6 and 5.1 aerosol datasets over the greater Mediterranean region. Atmospheric Environment, 2016, 147, 310-319.	1.9	46
51	Relationship of suicide rates with climate and economic variables in Europe during 2000 – 2012. Annals of General Psychiatry, 2016, 15, 19.	1.2	48
52	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.	1.9	71
53	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.	1.9	71
54	Climate change but not unemployment explains the changing suicidality in Thessaloniki Greece (2000 – 2012). Journal of Affective Disorders, 2016, 193, 331-338.	2.0	23

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55	Extreme total column ozone events and effects on UV solar radiation at Thessaloniki, Greece. <i>Theoretical and Applied Climatology</i> , 2016, 126, 505-517.	1.3	13
56	On the ability of RegCM4 regional climate model to simulate surface solar radiation patterns over Europe: an assessment using satellite-based observations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13195-13216.	1.9	32
57	Evaluation of near-surface ozone over Europe from the MACC reanalysis. <i>Geoscientific Model Development</i> , 2015, 8, 2299-2314.	1.3	34
58	Regional climate hindcast simulations within EURO-CORDEX: evaluation of a WRF multi-physics ensemble. <i>Geoscientific Model Development</i> , 2015, 8, 603-618.	1.3	175
59	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
60	Transient high-resolution regional climate simulation for Greece over the period 1960-2100: evaluation and future projections. <i>Climate Research</i> , 2015, 64, 123-140.	0.4	25
61	Recent past and future patterns of the Etesian winds based on regional scale climate model simulations. <i>Climate Dynamics</i> , 2014, 42, 1819-1836.	1.7	57
62	Modeling and mapping temperature and precipitation climate data in Greece using topographical and geographical parameters. <i>Theoretical and Applied Climatology</i> , 2014, 118, 133-146.	1.3	33
63	Near-surface ozone trends over Europe in RegCM3/CAMx simulations for the time period 1996–2006. <i>Atmospheric Environment</i> , 2014, 97, 6-18.	1.9	9
64	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.	1.8	23
65	Evidence for an earlier greenhouse cooling effect in the stratosphere before 1980 over the Northern Hemisphere. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7705-7720.	1.9	11
66	Summertime free-tropospheric ozone pool over the eastern Mediterranean/Middle East. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 115-132.	1.9	131
67	Mapping of Surface Ozone Seasonality and Trends Across Europe During 1997–2006 Through Kriging Interpolation to Observational Data. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	4
68	Evaluating the impact of chemical boundary conditions on near surface ozone in regional climate–air quality simulations over Europe. <i>Atmospheric Research</i> , 2013, 134, 116-130.	1.8	25
69	Factors affecting the comparisons of planetary boundary layer height retrievals from CALIPSO, ECMWF and radiosondes over Thessaloniki, Greece. <i>Atmospheric Environment</i> , 2013, 74, 360-366.	1.9	38
70	Winter anticyclonic blocking effects over Europe during 1960–2000 from an ensemble of regional climate models. <i>Climate Research</i> , 2013, 57, 81-91.	0.4	4
71	Regional climate feedback of anthropogenic aerosols over Europe using RegCM3. <i>Climate Research</i> , 2012, 52, 267-278.	0.4	49
72	Modelling the effects of climate change on air quality over Central and Eastern Europe: concept, evaluation and projections. <i>Climate Research</i> , 2012, 53, 179-203.	0.4	45

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73	Future climate change impacts on summer surface ozone from regional climate-air quality simulations over Europe. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	73
74	Evaluation of near surface ozone in air quality simulations forced by a regional climate model over Europe for the period 1991-2000. <i>Atmospheric Environment</i> , 2011, 45, 6489-6500.	1.9	29
75	Present climate trend analysis of the Etesian winds in the Aegean Sea. <i>Theoretical and Applied Climatology</i> , 2011, 106, 459-472.	1.3	61
76	Effects of climate change on ozone and particulate matter over Central and Eastern Europe. <i>Climate Research</i> , 2011, 50, 51-68.	0.4	29
77	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
78	Decadal regional air quality simulations over Europe in present climate: near surface ozone sensitivity to external meteorological forcing. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11805-11821.	1.9	41
79	A deep stratospheric intrusion event down to the earth's surface of the megacity of Athens. <i>Meteorology and Atmospheric Physics</i> , 2010, 109, 9-18.	0.9	35
80	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. <i>Annales Geophysicae</i> , 2009, 27, 3977-3988.	0.6	27
81	Analysis of an ensemble of present day and future regional climate simulations for Greece. <i>International Journal of Climatology</i> , 2009, 29, 1614-1633.	1.5	47
82	A sensitivity study of the Regional Climate Model (RegCM3) to the convective scheme with emphasis in central eastern and southeastern Europe. <i>Theoretical and Applied Climatology</i> , 2009, 97, 327-337.	1.3	38
83	A correction of the recent air-temperature record at the historical meteorological station of the National Observatory of Athens (NOA) due to instrument change. <i>Theoretical and Applied Climatology</i> , 2009, 97, 385-389.	1.3	9
84	Optical characteristics of biomass burning aerosols over Southeastern Europe determined from UV-Raman lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2431-2440.	1.9	136
85	Statistical downscaling of daily precipitation over Greece. <i>International Journal of Climatology</i> , 2008, 28, 679-691.	1.5	16
86	Ozone trends at northern mid- and high latitudes - a European perspective. <i>Annales Geophysicae</i> , 2008, 26, 1207-1220.	0.6	128
87	The total solar eclipse of March 2006: overview. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5205-5220.	1.9	74
88	A study on natural and manmade global interannual fluctuations of cirrus cloud cover for the period 1984-2004. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2631-2642.	1.9	17
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.	1.9	27
90	Seasonal variability of measured ozone production efficiencies in the lower free troposphere of Central Europe. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 223-236.	1.9	63

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91	Search for Man-Made Cirrus Contrails over Southeast Asia. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 459.	0.3	5
92	On the turnaround of stratospheric ozone trends deduced from the reevaluated Umkehr record of Arosa, Switzerland. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	44
93	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
94	Sampling of an STT event over the Eastern Mediterranean region by lidar and electrochemical sonde. <i>Annales Geophysicae</i> , 2005, 23, 2039-2050.	0.6	16
95	Tropospheric ozone changes at unpolluted and semipolluted regions induced by stratospheric ozone changes. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	75
96	Accelerator mass spectrometry of particle-bound ¹⁰ Be. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 223-224, 601-607.	0.6	18
97	Low-frequency variability of beryllium-7 surface concentrations over the Eastern Mediterranean. <i>Atmospheric Environment</i> , 2003, 37, 1745-1756.	1.9	54
98	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
99	An estimate of the impact of stratosphere-to-troposphere transport (STT) on the lower free tropospheric ozone over the Alps using ¹⁰ Be and ⁷ Be measurements. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	61
100	Changes in tropospheric composition and air quality due to stratospheric ozone depletion This article is published as part of the United Nations Environmental Programme: Environmental effects of ozone depletion and its interactions with climate change: 2002 assessment.. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 62.	1.6	26
101	Evidence of impact of aviation on cirrus cloud formation. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1633-1644.	1.9	65
102	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
103	Photochemical Activity and Solar Ultraviolet Radiation (PAUR) Modulation Factors: An overview of the project. <i>Journal of Geophysical Research</i> , 2002, 107, PAU 1-1.	3.3	81
104	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
105	Changes in surface UV solar irradiance and ozone over the balkans during the eclipse of August 11, 1999. <i>Advances in Space Research</i> , 2001, 27, 1955-1963.	1.2	43
106	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2000, 37, 1-27.	1.4	37
107	Factors controlling beryllium-7 at Jungfraujoch in Switzerland. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 789-805.	0.8	52
108	On the relationship of HO ₂ + RO ₂ withj(O ₁ D) during the Free Tropospheric Experiment (FREETEX '96) at the Jungfraujoch Observatory(3580 m above sea level) in the Swiss Alps. <i>Journal of Geophysical Research</i> , 1999, 104, 26913-26925.	3.3	25