

# Apostolos Voulgarakis

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

10,311  
citations

94433

37  
h-index

66911

78  
g-index

123  
all docs

123  
docs citations

123  
times ranked

11731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scientific data from precipitation driver response model intercomparison project. <i>Scientific Data</i> , 2022, 9, 123.	5.3	5
2	Future climate change impact on wildfire danger over the Mediterranean: the case of Greece. <i>Environmental Research Letters</i> , 2022, 17, 045022.	5.2	17
3	Climate drivers of global wildfire burned area. <i>Environmental Research Letters</i> , 2022, 17, 045021.	5.2	14
4	A study of the effect of aerosols on surface ozone through meteorology feedbacks over China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5705-5718.	4.9	19
5	The importance of antecedent vegetation and drought conditions as global drivers of burnt area. <i>Biogeosciences</i> , 2021, 18, 3861-3879.	3.3	18
6	An unsupervised learning approach to identifying blocking events: the case of European summer. <i>Weather and Climate Dynamics</i> , 2021, 2, 581-608.	3.5	4
7	Distinct surface response to black carbon aerosols. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13797-13809.	4.9	2
8	Coupling interactive fire with atmospheric composition and climate in the UK Earth System Model. <i>Geoscientific Model Development</i> , 2021, 14, 6515-6539.	3.6	5
9	Predicting global patterns of long-term climate change from short-term simulations using machine learning. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	33
10	The effect of rapid adjustments to halocarbons and N <sub>2</sub> O on radiative forcing. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	7
11	Global sensitivity analysis of chemistry-climate model budgets of tropospheric ozone and OH: exploring model diversity. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4047-4058.	4.9	38
12	Response of surface shortwave cloud radiative effect to greenhouse gases and aerosols and its impact on summer maximum temperature. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8251-8266.	4.9	7
13	The Global Methane Budget 2000-2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.	9.9	1,199
14	Quantitative assessment of fire and vegetation properties in simulations with fire-enabled vegetation models from the Fire Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2020, 13, 3299-3318.	3.6	63
15	Extreme wet and dry conditions affected differently by greenhouse gases and aerosols. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	6.8	21
16	The Influence of Remote Aerosol Forcing from Industrialized Economies on the Future Evolution of East and West African Rainfall. <i>Journal of Climate</i> , 2019, 32, 8335-8354.	3.2	21
17	Arctic Amplification Response to Individual Climate Drivers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6698-6717.	3.3	39
18	Influence of Fire on the Carbon Cycle and Climate. <i>Current Climate Change Reports</i> , 2019, 5, 112-123.	8.6	81

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19	Comparison of Effective Radiative Forcing Calculations Using Multiple Methods, Drivers, and Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4382-4394.	3.3	21
20	Efficacy of Climate Forcings in PDRMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12824-12844.	3.3	55
21	Water vapour adjustments and responses differ between climate drivers. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12887-12899.	4.9	29
22	A PDRMIP Multimodel Study on the Impacts of Regional Aerosol Forcings on Global and Regional Precipitation. <i>Journal of Climate</i> , 2018, 31, 4429-4447.	3.2	83
23	Carbon Dioxide Physiological Forcing Dominates Projected Eastern Amazonian Drying. <i>Geophysical Research Letters</i> , 2018, 45, 2815-2825.	4.0	35
24	Weak hydrological sensitivity to temperature change over land, independent of climate forcing. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	6.8	33
25	Dynamical response of Mediterranean precipitation to greenhouse gases and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8439-8452.	4.9	40
26	Fast sensitivity analysis methods for computationally expensive models with multi-dimensional output. <i>Geoscientific Model Development</i> , 2018, 11, 3131-3146.	3.6	31
27	Using machine learning to build temperature-based ozone parameterizations for climate sensitivity simulations. <i>Environmental Research Letters</i> , 2018, 13, 104016.	5.2	48
28	Drivers of Precipitation Change: An Energetic Understanding. <i>Journal of Climate</i> , 2018, 31, 9641-9657.	3.2	63
29	Understanding Rapid Adjustments to Diverse Forcing Agents. <i>Geophysical Research Letters</i> , 2018, 45, 12023-12031.	4.0	113
30	Quantifying the Importance of Rapid Adjustments for Global Precipitation Changes. <i>Geophysical Research Letters</i> , 2018, 45, 11399-11405.	4.0	26
31	The South Asian Monsoon Response to Remote Aerosols: Global and Regional Mechanisms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,585.	3.3	21
32	Sensible heat has significantly affected the global hydrological cycle over the historical period. <i>Nature Communications</i> , 2018, 9, 1922.	12.8	44
33	Similar spatial patterns of global climate response to aerosols from different regions. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	6.8	33
34	An agricultural biomass burning episode in eastern China: Transport, optical properties, and impacts on regional air quality. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2304-2324.	3.3	31
35	Rapid Adjustments Cause Weak Surface Temperature Response to Increased Black Carbon Concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11462-11481.	3.3	118
36	Long-Lead Prediction of the 2015 Fire and Haze Episode in Indonesia. <i>Geophysical Research Letters</i> , 2017, 44, 9996.	4.0	16

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37	PDRMIP: A Precipitation Driver and Response Model Intercomparison Project Protocol and Preliminary Results. Bulletin of the American Meteorological Society, 2017, 98, 1185-1198.	3.3	116
38	Variability and quasi-decadal changes in the methane budget over the period 2000–2012. Atmospheric Chemistry and Physics, 2017, 17, 11135-11161.	4.9	85
39	The Fire Modeling Intercomparison Project (FireMIP), phase 1: experimental and analytical protocols with detailed model descriptions. Geoscientific Model Development, 2017, 10, 1175-1197.	3.6	159
40	Description and evaluation of the Multiscale Online Nonhydrostatic Atmosphere Chemistry model (NMMB-MONARCH) version 1.0: gas-phase chemistry at global scale. Geoscientific Model Development, 2017, 10, 609-638.	3.6	41
41	Fire Impacts on High-Altitude Atmospheric Composition. Springer Atmospheric Sciences, 2017, , 1231-1237.	0.3	0
42	The status and challenge of global fire modelling. Biogeosciences, 2016, 13, 3359-3375.	3.3	274
43	Fast and slow precipitation responses to individual climate forcings: A PDRMIP multimodel study. Geophysical Research Letters, 2016, 43, 2782-2791.	4.0	179
44	Simulating the Black Saturday 2009 smoke plume with an interactive composition climate model: Sensitivity to emissions amount, timing, and injection height. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4296-4316.	3.3	16
45	Regional and global temperature response to anthropogenic SO <sub>2</sub> emissions from China in three climate models. Atmospheric Chemistry and Physics, 2016, 16, 9785-9804.	4.9	46
46	Ozone and carbon monoxide budgets over the Eastern Mediterranean. Science of the Total Environment, 2016, 563-564, 40-52.	8.0	15
47	Satellite versus ground-based estimates of burned area: A comparison between MODIS based burned area and fire agency reports over North America in 2007. Infrastructure Asset Management, 2016, 3, 76-92.	1.6	22
48	The global methane budget 2000–2012. Earth System Science Data, 2016, 8, 697-751.	9.9	824
49	INFERNO: a fire and emissions scheme for the UK Met Office's Unified Model. Geoscientific Model Development, 2016, 9, 2685-2700.	3.6	37
50	Interannual variability of tropospheric trace gases and aerosols: The role of biomass burning emissions. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7157-7173.	3.3	41
51	Sensitivity of simulated tropospheric CO to subgrid physics parameterization: A case study of Indonesian biomass burning emissions in 2006. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11743-11759.	3.3	4
52	Fire Influences on Atmospheric Composition, Air Quality and Climate. Current Pollution Reports, 2015, 1, 70-81.	6.6	71
53	Future climate change under RCP emission scenarios with GISS ModelE2. Journal of Advances in Modeling Earth Systems, 2015, 7, 244-267.	3.8	112
54	Evaluation of the new UKCA climate-composition model Part 2: The Troposphere. Geoscientific Model Development, 2014, 7, 41-91.	3.6	191

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55	CMIP5 historical simulations (1850–2012) with GISS ModelE2. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 441-478.	3.8	133
56	Configuration and assessment of the GISS ModelE2 contributions to the CMIP5 archive. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 141-184.	3.8	597
57	The role of temporal evolution in modeling atmospheric emissions from tropical fires. <i>Atmospheric Environment</i> , 2014, 89, 158-168.	4.1	16
58	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	12.9	1,649
59	El Niño and health risks from landscape fire emissions in southeast Asia. <i>Nature Climate Change</i> , 2013, 3, 131-136.	18.8	250
60	Attribution of historical ozone forcing to anthropogenic emissions. <i>Nature Climate Change</i> , 2013, 3, 567-570.	18.8	42
61	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. <i>Geoscientific Model Development</i> , 2013, 6, 179-206.	3.6	388
62	Preindustrial to present-day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5277-5298.	4.9	288
63	Linkages between ozone-depleting substances, tropospheric oxidation and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4907-4916.	4.9	5
64	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2063-2090.	4.9	570
65	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3063-3085.	4.9	361
66	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2563-2587.	4.9	257
67	Interactive ozone and methane chemistry in GISS-E2 historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2653-2689.	4.9	150
68	Radiative forcing in the ACCMIP historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2939-2974.	4.9	395
69	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4057-4072.	4.9	61
70	A Tropospheric Emission Spectrometer HDO/H <sub>2</sub> O retrieval simulator for climate models. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10485-10504.	4.9	9
71	Precipitation response to regional radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6969-6982.	4.9	72
72	Global multi-year O <sub>3</sub> -CO correlation patterns from models and TES satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5819-5838.	4.9	54

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73	Increases in global tropospheric ozone following an El Niño event: examining stratospheric ozone variability as a potential driver. <i>Atmospheric Science Letters</i> , 2011, 12, 228-232.	1.9	30
74	Interannual variability of tropospheric composition: the influence of changes in emissions, meteorology and clouds. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2491-2506.	4.9	52
75	Constraining the Sensitivity of Regional Climate with the Use of Historical Observations. <i>Journal of Climate</i> , 2010, 23, 6068-6073.	3.2	8
76	How different would tropospheric oxidation be over an ice-free Arctic?. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	16
77	Clouds, photolysis and regional tropospheric ozone budgets. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8235-8246.	4.9	42
78	Upgrading photolysis in the p-TOMCAT CTM: model evaluation and assessment of the role of clouds. <i>Geoscientific Model Development</i> , 2009, 2, 59-72.	3.6	32
79	PM10 and PM2.5 Levels in the Eastern Mediterranean (Akrotiri Research Station, Crete, Greece). <i>Water, Air, and Soil Pollution</i> , 2008, 189, 85-101.	2.4	55