

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	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	12.9	1,649
2	The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.	9.9	1,199
3	The global methane budget 2000–2012. <i>Earth System Science Data</i> , 2016, 8, 697-751.	9.9	824
4	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
5	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
6	Radiative forcing in the ACCMIP historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2939-2974.	4.9	395
7	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
8	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
9	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
10	The status and challenge of global fire modelling. <i>Biogeosciences</i> , 2016, 13, 3359-3375.	3.3	274
11	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
12	El Niño and health risks from landscape fire emissions in southeast Asia. <i>Nature Climate Change</i> , 2013, 3, 131-136.	18.8	250
13	Evaluation of the new UKCA climate-composition model – Part 2: The Troposphere. <i>Geoscientific Model Development</i> , 2014, 7, 41-91.	3.6	191
14	Fast and slow precipitation responses to individual climate forcings: A PDRMIP multimodel study. <i>Geophysical Research Letters</i> , 2016, 43, 2782-2791.	4.0	179
15	The Fire Modeling Intercomparison Project (FireMIP), phase 1: experimental and analytical protocols with detailed model descriptions. <i>Geoscientific Model Development</i> , 2017, 10, 1175-1197.	3.6	159
16	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
17	CMIP5 historical simulations (1850–2012) with GISS ModelE2. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 441-478.	3.8	133
18	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

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19	PDRMIP: A Precipitation Driver and Response Model Intercomparison Projectâ€”Protocol and Preliminary Results. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1185-1198.	3.3	116
20	Understanding Rapid Adjustments to Diverse Forcing Agents. <i>Geophysical Research Letters</i> , 2018, 45, 12023-12031.	4.0	113
21	Future climate change under RCP emission scenarios with GISS <sc>M</sc>odelE2. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 244-267.	3.8	112
22	Variability and quasi-decadal changes in the methane budget over the period 2000â€”2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11135-11161.	4.9	85
23	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
24	Influence of Fire on the Carbon Cycle and Climate. <i>Current Climate Change Reports</i> , 2019, 5, 112-123.	8.6	81
25	Precipitation response to regional radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6969-6982.	4.9	72
26	Fire Influences on Atmospheric Composition, Air Quality and Climate. <i>Current Pollution Reports</i> , 2015, 1, 70-81.	6.6	71
27	Drivers of Precipitation Change: An Energetic Understanding. <i>Journal of Climate</i> , 2018, 31, 9641-9657.	3.2	63
28	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
29	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
30	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
31	Efficacy of Climate Forcings in PDRMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12824-12844.	3.3	55
32	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
33	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
34	Using machine learning to build temperature-based ozone parameterizations for climate sensitivity simulations. <i>Environmental Research Letters</i> , 2018, 13, 104016.	5.2	48
35	Regional and global temperature response to anthropogenic SO<sub>2</sub& emissions from China in three climate models. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9785-9804.	4.9	46
36	Sensible heat has significantly affected the global hydrological cycle over the historical period. <i>Nature Communications</i> , 2018, 9, 1922.	12.8	44

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37	Clouds, photolysis and regional tropospheric ozone budgets. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8235-8246.	4.9	42
38	Attribution of historical ozone forcing to anthropogenic emissions. <i>Nature Climate Change</i> , 2013, 3, 567-570.	18.8	42
39	Interannual variability of tropospheric trace gases and aerosols: The role of biomass burning emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7157-7173.	3.3	41
40	Description and evaluation of the Multiscale Online Nonhydrostatic Atmosphere Chemistry model (NMMB-MONARCH) version 1.0: gas-phase chemistry at global scale. <i>Geoscientific Model Development</i> , 2017, 10, 609-638.	3.6	41
41	Dynamical response of Mediterranean precipitation to greenhouse gases and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8439-8452.	4.9	40
42	Arctic Amplification Response to Individual Climate Drivers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6698-6717.	3.3	39
43	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
44	INFERNO: a fire and emissions scheme for the UK Met Office's Unified Model. <i>Geoscientific Model Development</i> , 2016, 9, 2685-2700.	3.6	37
45	Carbon Dioxide Physiological Forcing Dominates Projected Eastern Amazonian Drying. <i>Geophysical Research Letters</i> , 2018, 45, 2815-2825.	4.0	35
46	Weak hydrological sensitivity to temperature change over land, independent of climate forcing. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	6.8	33
47	Similar spatial patterns of global climate response to aerosols from different regions. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	6.8	33
48	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
49	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
50	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
51	Fast sensitivity analysis methods for computationally expensive models with multi-dimensional output. <i>Geoscientific Model Development</i> , 2018, 11, 3131-3146.	3.6	31
52	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
53	Water vapour adjustments and responses differ between climate drivers. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12887-12899.	4.9	29
54	Quantifying the Importance of Rapid Adjustments for Global Precipitation Changes. <i>Geophysical Research Letters</i> , 2018, 45, 11399-11405.	4.0	26

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55	Satellite versus ground-based estimates of burned area: A comparison between MODIS based burned area and fire agency reports over North America in 2007. <i>Infrastructure Asset Management</i> , 2016, 3, 76-92.	1.6	22
56	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
57	Extreme wet and dry conditions affected differently by greenhouse gases and aerosols. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	6.8	21
58	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
59	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
60	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
61	The importance of antecedent vegetation and drought conditions as global drivers of burnt area. <i>Biogeosciences</i> , 2021, 18, 3861-3879.	3.3	18
62	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
63	How different would tropospheric oxidation be over an ice-free Arctic?. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	16
64	The role of temporal evolution in modeling atmospheric emissions from tropical fires. <i>Atmospheric Environment</i> , 2014, 89, 158-168.	4.1	16
65	Simulating the Black Saturday 2009 smoke plume with an interactive composition climate model: Sensitivity to emissions amount, timing, and injection height. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4296-4316.	3.3	16
66	Long-Lead Prediction of the 2015 Fire and Haze Episode in Indonesia. <i>Geophysical Research Letters</i> , 2017, 44, 9996.	4.0	16
67	Ozone and carbon monoxide budgets over the Eastern Mediterranean. <i>Science of the Total Environment</i> , 2016, 563-564, 40-52.	8.0	15
68	Climate drivers of global wildfire burned area. <i>Environmental Research Letters</i> , 2022, 17, 045021.	5.2	14
69	A Tropospheric Emission Spectrometer HDO/H ₂ O retrieval simulator for climate models. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10485-10504.	4.9	9
70	Constraining the Sensitivity of Regional Climate with the Use of Historical Observations. <i>Journal of Climate</i> , 2010, 23, 6068-6073.	3.2	8
71	The effect of rapid adjustments to halocarbons and N ₂ O on radiative forcing. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	7
72	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

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73	Linkages between ozone-depleting substances, tropospheric oxidation and aerosols. Atmospheric Chemistry and Physics, 2013, 13, 4907-4916.	4.9	5
74	Coupling interactive fire with atmospheric composition and climate in the UK Earth System Model. Geoscientific Model Development, 2021, 14, 6515-6539.	3.6	5
75	Scientific data from precipitation driver response model intercomparison project. Scientific Data, 2022, 9, 123.	5.3	5
76	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, 11,743-11,759.	3.3	4
77	An unsupervised learning approach to identifying blocking events: the case of European summer. Weather and Climate Dynamics, 2021, 2, 581-608.	3.5	4
78	Distinct surface response to black carbon aerosols. Atmospheric Chemistry and Physics, 2021, 21, 13797-13809.	4.9	2
79	Fire Impacts on High-Altitude Atmospheric Com-Position. Springer Atmospheric Sciences, 2017, , 1231-1237.	0.3	0