

Vaishali Naik

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

12,369
citations

48
h-index

111
g-index

133
ext. papers

14,719
ext. citations

7.4
avg, IF

5.62
L-index

#	Paper	IF	Citations
119	Historical (1850-2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7017-7039	6.8	1724
118	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013 , 6, 813-823	18.3	1293
117	The Dynamical Core, Physical Parameterizations, and Basic Simulation Characteristics of the Atmospheric Component AM3 of the GFDL Global Coupled Model CM3. <i>Journal of Climate</i> , 2011 , 24, 3484-3519	4.4	768
116	The global methane budget 2000-2012. <i>Earth System Science Data</i> , 2016 , 8, 697-751	10.5	641
115	The Global Methane Budget 2000-2017. <i>Earth System Science Data</i> , 2020 , 12, 1561-1623	10.5	463
114	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	6.8	420
113	Co-benefits of Global Greenhouse Gas Mitigation for Future Air Quality and Human Health. <i>Nature Climate Change</i> , 2013 , 3, 885-889	21.4	374
112	Global air quality and climate. <i>Chemical Society Reviews</i> , 2012 , 41, 6663-83	58.5	334
111	Radiative forcing in the ACCMIP historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2939-2974	6.8	324
110	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	6.3	304
109	Global distribution and trends of tropospheric ozone: An observation-based review. <i>Elementa</i> , 2014 , 2,	3.6	292
108	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. <i>Environmental Research Letters</i> , 2013 , 8, 034005	6.2	279
107	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	6.8	273
106	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	6.8	234
105	Air quality and climate connections. <i>Journal of the Air and Waste Management Association</i> , 2015 , 65, 645-654	8.5	224
104	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2563-2587	6.8	209
103	Transport of Asian ozone pollution into surface air over the western United States in spring. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		196

102	Springtime high surface ozone events over the western United States: Quantifying the role of stratospheric intrusions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		191
101	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3691-3727	7.1	128
100	Surface ozone-temperature relationships in the eastern US: A monthly climatology for evaluating chemistry-climate models. <i>Atmospheric Environment</i> , 2012 , 47, 142-153	5.3	126
99	The roles of aerosol direct and indirect effects in past and future climate change. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4521-4532	4.4	125
98	Long-term changes in lower tropospheric baseline ozone concentrations: Comparing chemistry-climate models and observations at northern midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5719-5736	4.4	124
97	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 735-769	7.1	122
96	Tropospheric Ozone Assessment Report: Assessment of global-scale model performance for global and regional ozone distributions, variability, and trends. <i>Elementa</i> , 2018 , 6,	3.6	121
95	Tropospheric ozone assessment report: Global ozone metrics for climate change, human health, and crop/ecosystem research. <i>Elementa</i> , 2018 , 1, 1	3.6	115
94	FUTURE GLOBAL MORTALITY FROM CHANGES IN AIR POLLUTION ATTRIBUTABLE TO CLIMATE CHANGE. <i>Nature Climate Change</i> , 2017 , 7, 647-651	21.4	114
93	Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2607-2634	6.8	111
92	A 4-D climatology (1979-2009) of the monthly tropospheric aerosol optical depth distribution over the Mediterranean region from a comparative evaluation and blending of remote sensing and model products. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1287-1314	4	109
91	Characterizing the tropospheric ozone response to methane emission controls and the benefits to climate and air quality. <i>Journal of Geophysical Research</i> , 2008 , 113,		107
90	Air pollution and associated human mortality: the role of air pollutant emissions, climate change and methane concentration increases from the preindustrial period to present. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1377-1394	6.8	106
89	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 691-734	7.1	100
88	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002015	7.1	97
87	Present and potential future contributions of sulfate, black and organic carbon aerosols from China to global air quality, premature mortality and radiative forcing. <i>Atmospheric Environment</i> , 2009 , 43, 2814-2822	5.3	95
86	Impact of preindustrial to present-day changes in short-lived pollutant emissions on atmospheric composition and climate forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8086-8110	4.4	91
85	The influence of ozone precursor emissions from four world regions on tropospheric composition and radiative climate forcing. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		84

84	Net radiative forcing due to changes in regional emissions of tropospheric ozone precursors. <i>Journal of Geophysical Research</i> , 2005 , 110,		84
83	Contribution of local and remote anthropogenic aerosols to the twentieth century weakening of the South Asian Monsoon. <i>Geophysical Research Letters</i> , 2014 , 41, 680-687	4.9	77
82	Comparison of emissions inventories of anthropogenic air pollutants and greenhouse gases in China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6393-6421	6.8	77
81	Estimating North American background ozone in U.S. surface air with two independent global models: Variability, uncertainties, and recommendations. <i>Atmospheric Environment</i> , 2014 , 96, 284-300	5.3	75
80	Variability and quasi-decadal changes in the methane budget over the period 2000-2012. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11135-11161	6.8	69
79	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9847-9862	6.8	65
78	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1459-1477	6.8	55
77	Radiative forcing and climate response to projected 21st century aerosol decreases. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12681-12703	6.8	55
76	Consistent sets of atmospheric lifetimes and radiative forcings on climate for CFC replacements: HCFCs and HFCs. <i>Journal of Geophysical Research</i> , 2000 , 105, 6903-6914		54
75	Ozone air quality and radiative forcing consequences of changes in ozone precursor emissions. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	53
74	Sensitivity of global biogenic isoprenoid emissions to climate variability and atmospheric CO ₂ . <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		53
73	Climate versus emission drivers of methane lifetime against loss by tropospheric OH from 1860-2100. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 12021-12036	6.8	52
72	Quantifying PM _{2.5} -meteorology sensitivities in a global climate model. <i>Atmospheric Environment</i> , 2016 , 142, 43-56	5.3	51
71	Observational constraints on the global atmospheric budget of ethanol. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5361-5370	6.8	48
70	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4057-4072	6.8	46
69	Twenty-first century reversal of the surface ozone seasonal cycle over the northeastern United States. <i>Geophysical Research Letters</i> , 2014 , 41, 7343-7350	4.9	42
68	Air quality modeling with WRF-Chem v3.5 in East Asia: sensitivity to emissions and evaluation of simulated air quality. <i>Geoscientific Model Development</i> , 2016 , 9, 1201-1218	6.3	42
67	Projecting policy-relevant metrics for high summertime ozone pollution events over the eastern United States due to climate and emission changes during the 21st century. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 784-800	4.4	41

66	SPEAR: The Next Generation GFDL Modeling System for Seasonal to Multidecadal Prediction and Projection. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001895	7.1	40
65	Effect of regional precursor emission controls on long-range ozone transport [Part 2: Steady-state changes in ozone air quality and impacts on human mortality. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6095-6107	6.8	39
64	On the sensitivity of radiative forcing from biomass burning aerosols and ozone to emission location. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	39
63	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13265-13281	6.8	39
62	Historical and future changes in air pollutants from CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14547-14579	6.8	38
61	Use of North American and European air quality networks to evaluate global chemistry-climate modeling of surface ozone. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10581-10596	6.8	35
60	Radiative Forcing of Climate: The Historical Evolution of the Radiative Forcing Concept, the Forcing Agents and their Quantification, and Applications. <i>Meteorological Monographs</i> , 2019 , 59, 14.1-14.101	5.7	34
59	Exploring the relationship between surface PM _{2.5} and meteorology in Northern India. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10157-10175	6.8	34
58	Sensitivity of tropospheric oxidants to biomass burning emissions: implications for radiative forcing. <i>Geophysical Research Letters</i> , 2013 , 40, 1241-1246	4.9	33
57	Effect of climate change on surface ozone over North America, Europe, and East Asia. <i>Geophysical Research Letters</i> , 2016 , 43, 3509-3518	4.9	31
56	Effect of regional precursor emission controls on long-range ozone transport [Part 1: Short-term changes in ozone air quality. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6077-6093	6.8	30
55	Tropospheric ozone in CMIP6 simulations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4187-4218	6.8	27
54	Seasonal cycles of O ₃ in the marine boundary layer: Observation and model simulation comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 538-557	4.4	26
53	The GFDL Global Atmospheric Chemistry-Climate Model AM4.1: Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002032	7.1	25
52	Influence of geoengineered climate on the terrestrial biosphere. <i>Environmental Management</i> , 2003 , 32, 373-81	3.1	24
51	Gas-aerosol partitioning of ammonia in biomass burning plumes: Implications for the interpretation of spaceborne observations of ammonia and the radiative forcing of ammonium nitrate. <i>Geophysical Research Letters</i> , 2017 , 44, 8084-8093	4.9	23
50	Air quality impacts from the electrification of light-duty passenger vehicles in the United States. <i>Atmospheric Environment</i> , 2019 , 208, 95-102	5.3	22
49	Co-benefits of global and regional greenhouse gas mitigation on U.S. air quality in 2050. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9533-9548	6.8	21

48	Radiative forcing in the ACCMIP historical and future climate simulations		21
47	Uncertainties in models of tropospheric ozone based on Monte Carlo analysis: Tropospheric ozone burdens, atmospheric lifetimes and surface distributions. <i>Atmospheric Environment</i> , 2018 , 180, 93-102	5.3	20
46	Trends in global tropospheric hydroxyl radical and methane lifetime since 1850 from AerChemMIP. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12905-12920	6.8	19
45	Tropospheric Ozone Assessment Report. <i>Elementa</i> , 2020 , 8,	3.6	18
44	Effective radiative forcing from emissions of reactive gases and aerosols in a multi-model comparison. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 853-874	6.8	18
43	Global warming potential assessment for CF ₃ OCF = CF ₂ . <i>Journal of Geophysical Research</i> , 2000 , 105, 4019-4029		16
42	Modulation of hydroxyl variability by ENSO in the absence of external forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8931-8936	11.5	15
41	Investigation of the global methane budget over 1980-2017 using GFDL-AM4.1. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 805-827	6.8	14
40	Evaluation of preindustrial to present-day black carbon and its albedo forcing from ACCMIP (Atmospheric Chemistry and Climate Model Intercomparison Project)		12
39	Public Health and Climate Benefits and Trade-Offs of U.S. Vehicle Electrification. <i>GeoHealth</i> , 2020 , 4, e2020GH000275	5	12
38	Cobenefits of global and domestic greenhouse gas emissions for air quality and human health. <i>Lancet, The</i> , 2017 , 389, S23	4.0	11
37	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9641-9663	6.8	11
36	Net radiative forcing and air quality responses to regional CO emission reductions. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5381-5399	6.8	10
35	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations		10
34	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1105-1126	6.8	10
33	Reappraisal of the Climate Impacts of Ozone-Depleting Substances. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088295	4.9	9
32	Retrieving the global distribution of the threshold of wind erosion from satellite data and implementing it into the Geophysical Fluid Dynamics Laboratory land-atmosphere model (GFDL AM4.0/LM4.0). <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 55-81	6.8	8
31	Evaluation of the atmospheric lifetime and radiative forcing on climate for 1,2,2,2-tetrafluoroethyl trifluoromethyl ether (CF ₃ OCHF ₂ CF ₃). <i>Journal of Geophysical Research</i> , 2001 , 106, 12615-12618		8

30	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)		8
29	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Inter-comparison Project (ACCMIP)		8
28	Assessing the Influence of COVID-19 on the Shortwave Radiative Fluxes Over the East Asian Marginal Seas. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091699	4-9	8
27	Combining model projections with site-level observations to estimate changes in distributions and seasonality of ozone in surface air over the U.S.A.. <i>Atmospheric Environment</i> , 2018 , 193, 302-315	5-3	7
26	Observational constraints on ozone radiative forcing from the Atmospheric Chemistry Climate Model Intercomparison Project (ACCMIP)		7
25	Historical and future changes in air pollutants from CMIP6 models 2020 ,		6
24	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics 2012 ,		6
23	Radiative forcing and climate response to projected 21st century aerosol decreases		6
22	Climate versus emission drivers of methane lifetime from 1860-2100		5
21	Preindustrial to present day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)		5
20	Rapid and reliable assessment of methane impacts on climate. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15555-15568	6.8	5
19	Impact of volcanic aerosols on stratospheric ozone recovery. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9515-9528	4-4	3
18	Source attribution of black carbon affecting regional air quality, premature mortality and glacial deposition in 2000. <i>Atmospheric Environment</i> , 2019 , 206, 144-155	5-3	3
17	Corrigendum to "Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)" published in <i>Atmos. Chem. Phys.</i> , 13, 2607-2634, 2013. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6553-6554	6.8	3
16	Use of North American and European air quality networks to evaluate global chemistry-climate modeling of surface ozone		3
15	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth		3
14	Chapter 13 : Air Quality. Impacts, Risks, and Adaptation in the United States: The Fourth National Climate Assessment, Volume II 2018 ,		3
13	Global modeling of hydrogen using GFDL-AM4.1: Sensitivity of soil removal and radiative forcing. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 13446-13460	6-7	3

12	Variability and quasi-decadal changes in the methane budget over the period 2000–2012 2017 ,		2
11	Climate change penalty and benefit on surface ozone: a global perspective based on CMIP6 earth system models. <i>Environmental Research Letters</i> , 2022 , 17, 024014	6.2	2
10	Air Quality Modeling with WRF-Chem v3.5 in East and South Asia: sensitivity to emissions and evaluation of simulated air quality		2
9	Investigation of the global methane budget over 1980–2017 using GFDL-AM4.1 2019 ,		1
8	Effect of regional precursor emission controls on long-range ozone transport [Part 2: steady-state changes in ozone air quality and impacts on human mortality		1
7	Effect of regional precursor emission controls on long-range ozone transport [Part 1: short-term changes in ozone air quality		1
6	Air pollution and associated human mortality: the role of air pollutant emissions, climate change and methane concentration increases during the industrial period		1
5	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble 2016 ,		1
4	Exploring the relationship between surface PM _{2.5} and meteorology in Northern India 2018 ,		1
3	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms 2018 ,		1
2	Rapid and reliable assessment of methane impacts on climate 2018 ,		1
1	Hydroxyl Radical (OH) Response to Meteorological Forcing and Implication for the Methane Budget. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094140	4.9	0