

Peter J Adams

List of Publications by Year in descending order

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82
papers

7,642
citations

50170

46
h-index

62479

80
g-index

82
all docs

82
docs citations

82
times ranked

6496
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation and cycling of aerosols in the global troposphere. <i>Atmospheric Environment</i> , 2000, 34, 4215-4240.	1.9	386
2	The AeroCom evaluation and intercomparison of organic aerosol in global models. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10845-10895.	1.9	363
3	Predicting global aerosol size distributions in general circulation models. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 4-1.	3.3	335
4	Uncertainty in global CCN concentrations from uncertain aerosol nucleation and primary emission rates. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1339-1356.	1.9	299
5	Global concentrations of tropospheric sulfate, nitrate, and ammonium aerosol simulated in a general circulation model. <i>Journal of Geophysical Research</i> , 1999, 104, 13791-13823.	3.3	282
6	Sensitivity of PM _{2.5} to climate in the Eastern US: a modeling case study. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4295-4309.	1.9	273
7	Ammonia Emission Controls as a Cost-Effective Strategy for Reducing Atmospheric Particulate Matter in the Eastern United States. <i>Environmental Science & Technology</i> , 2007, 41, 380-386.	4.6	251
8	General circulation model assessment of direct radiative forcing by the sulfate-nitrate-ammonium-water inorganic aerosol system. <i>Journal of Geophysical Research</i> , 2001, 106, 1097-1111.	3.3	228
9	Global evaluation of CCN formation by direct emission of sea salt and growth of ultrafine sea salt. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	200
10	Unspeciated organic emissions from combustion sources and their influence on the secondary organic aerosol budget in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10473-10478.	3.3	196
11	Efficiency of cloud condensation nuclei formation from ultrafine particles. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1367-1379.	1.9	192
12	Sensitivity of ozone to summertime climate in the eastern USA: A modeling case study. <i>Atmospheric Environment</i> , 2007, 41, 1494-1511.	1.9	182
13	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 1843-1864.	1.7	175
14	Climatic effects of 1950–2050 changes in US anthropogenic aerosols – Part 1: Aerosol trends and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3333-3348.	1.9	157
15	Interactions between tropospheric chemistry and aerosols in a unified general circulation model. <i>Journal of Geophysical Research</i> , 2003, 108, AAC 1-1.	3.3	152
16	Sensitivity of global tropospheric ozone and fine particulate matter concentrations to climate change. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	152
17	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4679-4713.	1.9	148
18	Modeling global secondary organic aerosol formation and processing with the volatility basis set: Implications for anthropogenic secondary organic aerosol. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	145

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19	Climatic effects of 1950â€“2050 changes in US anthropogenic aerosols â€“ Part 2: Climate response. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3349-3362.	1.9	136
20	Can cosmic rays affect cloud condensation nuclei by altering new particle formation rates?. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	134
21	Contribution of brown carbon and lensing to the direct radiative effect of carbonaceous aerosols from biomass and biofuel burning emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,285.	1.2	134
22	Global radiative forcing of coupled tropospheric ozone and aerosols in a unified general circulation model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	128
23	Contribution of primary carbonaceous aerosol to cloud condensation nuclei: processes and uncertainties evaluated with a global aerosol microphysics model. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5447-5466.	1.9	118
24	Public Health Costs of Primary PM _{2.5} and Inorganic PM _{2.5} Precursor Emissions in the United States. <i>Environmental Science & Technology</i> , 2016, 50, 6061-6070.	4.6	106
25	Air pollutant emissions from the development, production, and processing of Marcellus Shale natural gas. <i>Journal of the Air and Waste Management Association</i> , 2014, 64, 19-37.	0.9	104
26	Why do organic aerosols exist? Understanding aerosol lifetimes using the two-dimensional volatility basis set. <i>Environmental Chemistry</i> , 2013, 10, 151.	0.7	103
27	Reduced-form modeling of public health impacts of inorganic PM 2.5 and precursor emissions. <i>Atmospheric Environment</i> , 2016, 137, 80-89.	1.9	99
28	Temporally resolved ammonia emission inventories: Current estimates, evaluation tools, and measurement needs. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	95
29	Disproportionate impact of particulate emissions on global cloud condensation nuclei concentrations. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	90
30	Constraining Particle Evolution from Wall Losses, Coagulation, and Condensation-Evaporation in Smog-Chamber Experiments: Optimal Estimation Based on Size Distribution Measurements. <i>Aerosol Science and Technology</i> , 2008, 42, 1001-1015.	1.5	90
31	Formation and growth of nucleated particles into cloud condensation nuclei: modelâ€“measurement comparison. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7645-7663.	1.9	87
32	Will black carbon mitigation dampen aerosol indirect forcing?. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	86
33	The influence of semi-volatile and reactive primary emissions on the abundance and properties of global organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7727-7746.	1.9	86
34	A temporally and spatially resolved ammonia emission inventory for dairy cows in the United States. <i>Atmospheric Environment</i> , 2004, 38, 3747-3756.	1.9	82
35	A process-based model of ammonia emissions from dairy cows: improved temporal and spatial resolution. <i>Atmospheric Environment</i> , 2004, 38, 1357-1365.	1.9	79
36	Elicitation of Expert Judgments of Aerosol Forcing. <i>Climatic Change</i> , 2006, 75, 195-214.	1.7	75

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37	The response of surface ozone to climate change over the Eastern United States. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 871-885.	1.9	75
38	Variation in Estimated Ozone-Related Health Impacts of Climate Change due to Modeling Choices and Assumptions. <i>Environmental Health Perspectives</i> , 2012, 120, 1559-1564.	2.8	74
39	Simulating the size distribution and chemical composition of ultrafine particles during nucleation events. <i>Atmospheric Environment</i> , 2006, 40, 2248-2259.	1.9	73
40	Secondary Organic Aerosol Formation from Photo-Oxidation of Unburned Fuel: Experimental Results and Implications for Aerosol Formation from Combustion Emissions. <i>Environmental Science & Technology</i> , 2013, 47, 12886-12893.	4.6	73
41	Analysis of feedbacks between nucleation rate, survival probability and cloud condensation nuclei formation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5577-5597.	1.9	72
42	Tropospheric aerosol microphysics simulation with assimilated meteorology: model description and intermodel comparison. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3149-3168.	1.9	70
43	Air quality-related health damages of food. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	70
44	An inter-comparison of the social costs of air quality from reduced-complexity models. <i>Environmental Research Letters</i> , 2019, 14, 074016.	2.2	66
45	Development of a global model of mineral dust aerosol microphysics. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2441-2458.	1.9	61
46	Simulation of in situ ultrafine particle formation in the eastern United States using PMCAMx-UF. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
47	Effect of primary organic sea spray emissions on cloud condensation nuclei concentrations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 89-101.	1.9	57
48	A Fast and Efficient Version of the Two-Moment Aerosol Sectional (TOMAS) Global Aerosol Microphysics Model. <i>Aerosol Science and Technology</i> , 2012, 46, 678-689.	1.5	54
49	New particle formation and growth in biomass burning plumes: An important source of cloud condensation nuclei. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	54
50	Effect of Model Spatial Resolution on Estimates of Fine Particulate Matter Exposure and Exposure Disparities in the United States. <i>Environmental Science and Technology Letters</i> , 2018, 5, 436-441.	3.9	54
51	A Computationally Efficient Aerosol Nucleation/ Condensation Method: Pseudo-Steady-State Sulfuric Acid. <i>Aerosol Science and Technology</i> , 2009, 43, 216-226.	1.5	53
52	Impacts of climate change on regional and urban air quality in the eastern United States: Role of meteorology. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	53
53	A simple model of global aerosol indirect effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6688-6707.	1.2	53
54	Evaluation of aerosol distributions in the GISS-TOMAS global aerosol microphysics model with remote sensing observations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2129-2144.	1.9	50

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55	Evaluation of Nucleation Theories in a Sulfur-Rich Environment. <i>Aerosol Science and Technology</i> , 2008, 42, 495-504.	1.5	47
56	Cloud condensation nuclei prediction error from application of Köhler theory: Importance for the aerosol indirect effect. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	44
57	Representation of nucleation mode microphysics in a global aerosol model with sectional microphysics. <i>Geoscientific Model Development</i> , 2013, 6, 1221-1232.	1.3	40
58	U.S. Ozone Air Quality under Changing Climate and Anthropogenic Emissions. <i>Environmental Science & Technology</i> , 2009, 43, 571-577.	4.6	39
59	Parameterization of the effect of sub-grid scale aerosol dynamics on aerosol number emission rates. <i>Journal of Aerosol Science</i> , 2009, 40, 385-393.	1.8	34
60	Simulating present-day and future air quality as climate changes: Model evaluation. <i>Atmospheric Environment</i> , 2008, 42, 4551-4566.	1.9	30
61	Public health costs accounting of inorganic PM _{2.5} pollution in metropolitan areas of the United States using a risk-based source-receptor model. <i>Environment International</i> , 2017, 106, 119-126.	4.8	30
62	Modeling the formation and properties of traditional and non-traditional secondary organic aerosol: problem formulation and application to aircraft exhaust. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9025-9040.	1.9	28
63	Global climate response to anthropogenic aerosol indirect effects: Present day and year 2100. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26
64	Evaluation of the global aerosol microphysical ModelE2-TOMAS model against satellite and ground-based observations. <i>Geoscientific Model Development</i> , 2015, 8, 631-667.	1.3	26
65	Quantification of the effects of molecular marker oxidation on source apportionment estimates for motor vehicles. <i>Atmospheric Environment</i> , 2011, 45, 3132-3140.	1.9	24
66	Impact of natural gas development in the Marcellus and Utica shales on regional ozone and fine particulate matter levels. <i>Atmospheric Environment</i> , 2017, 155, 11-20.	1.9	22
67	The Costs, Air Quality, and Human Health Effects of Meeting Peak Electricity Demand with Installed Backup Generators. <i>Environmental Science & Technology</i> , 2006, 40, 6887-6893.	4.6	21
68	Testing secondary organic aerosol models using smog chamber data for complex precursor mixtures: influence of precursor volatility and molecular structure. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5771-5780.	1.9	20
69	The air quality and human health effects of integrating utility-scale batteries into the New York State electricity grid. <i>Journal of Power Sources</i> , 2010, 195, 2405-2413.	4.0	18
70	Semi-empirical process-based models for ammonia emissions from beef, swine, and poultry operations in the United States. <i>Atmospheric Environment</i> , 2015, 120, 127-136.	1.9	18
71	The food we eat, the air we breathe: a review of the fine particulate matter-induced air quality health impacts of the global food system. <i>Environmental Research Letters</i> , 2021, 16, 103004.	2.2	17
72	Using Backup Generators for Meeting Peak Electricity Demand: A Sensitivity Analysis on Emission Controls, Location, and Health Endpoints. <i>Journal of the Air and Waste Management Association</i> , 2010, 60, 523-531.	0.9	15

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73	Chlorine Truck Attack Consequences and Mitigation. <i>Risk Analysis</i> , 2011, 31, 1243-1259.	1.5	12
74	Impact of climate change on mercury concentrations and deposition in the eastern United States. <i>Science of the Total Environment</i> , 2014, 487, 299-312.	3.9	11
75	Implications of Ammonia Emissions from Post-Combustion Carbon Capture for Airborne Particulate Matter. <i>Environmental Science & Technology</i> , 2015, 49, 5142-5150.	4.6	11
76	Importance of composition and hygroscopicity of BC particles to the effect of BC mitigation on cloud properties: Application to California conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
77	Atmospheric nanoparticles and climate change. <i>AIChE Journal</i> , 2013, 59, 4006-4019.	1.8	8
78	Does the POAâ€SOA split matter for global CCN formation?. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 995-1010.	1.9	6
79	Computational Analysis of Particle Nucleation in Dilution Tunnels: Effects of Flow Configuration and Tunnel Geometry. <i>Aerosol Science and Technology</i> , 2014, 48, 638-648.	1.5	5
80	Where Did This Particle Come From? Sources of Particle Number and Mass for Human Exposure Estimates. <i>Issues in Environmental Science and Technology</i> , 2016, , 35-71.	0.4	5
81	Air Quality in a Changing Climate. <i>Environmental Health Perspectives</i> , 2011, 119, A154-5.	2.8	4
82	Simulations of vehicle-induced mixing and near-road aerosol microphysics using computational fluid dynamics. <i>AIMS Environmental Science</i> , 2018, 5, 315-339.	0.7	3