

Mark Jacobson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4461905/publications.pdf>

Version: 2024-02-01

228
papers

29,134
citations

6592

79
h-index

5519

163
g-index

246
all docs

246
docs citations

246
times ranked

21529
citing authors

#	ARTICLE	IF	CITATIONS
1	Renewable energy and energy storage to offset diesel generators at expeditionary contingency bases. Journal of Defense Modeling and Simulation, 2023, 20, 213-228.	1.2	3
2	Zero air pollution and zero carbon from all energy at low cost and without blackouts in variable weather throughout the U.S. with 100% wind-water-solar and storage. Renewable Energy, 2022, 184, 430-442.	4.3	33
3	Optimizing demand response of a modular water reuse system in a remote Arctic microgrid. Journal of Cleaner Production, 2022, 346, 131110.	4.6	5
4	Reply to comment on "How Green is Blue Hydrogen?" Energy Science and Engineering, 2022, 10, 1955-1960.	1.9	10
5	Toward battery electric and hydrogen fuel cell military vehicles for land, air, and sea. Energy, 2022, 254, 124355.	4.5	24
6	Low-cost solutions to global warming, air pollution, and energy insecurity for 145 countries. Energy and Environmental Science, 2022, 15, 3343-3359.	15.6	44
7	Data investigation of installed and output power densities of onshore and offshore wind turbines worldwide. Energy for Sustainable Development, 2021, 60, 40-51.	2.0	69
8	On the correlation between building heat demand and wind energy supply and how it helps to avoid blackouts. Smart Energy, 2021, 1, 100009.	2.6	20
9	On the socio-technical potential for onshore wind in Europe: A response to critics. Energy Policy, 2021, 151, 112147.	4.2	5
10	Onshore wind energy atlas for the United States accounting for land use restrictions and wind speed thresholds. Smart Energy, 2021, 3, 100046.	2.6	11
11	How green is blue hydrogen?. Energy Science and Engineering, 2021, 9, 1676-1687.	1.9	357
12	The cost of grid stability with 100% clean, renewable energy for all purposes when countries are isolated versus interconnected. Renewable Energy, 2021, 179, 1065-1075.	4.3	26
13	Co-optimized trading of hybrid wind power plant with retired EV batteries in energy and reserve markets under uncertainties. International Journal of Electrical Power and Energy Systems, 2020, 117, 105631.	3.3	31
14	Transitioning All Energy in 74 Metropolitan Areas, Including 30 Megacities, to 100% Clean and Renewable Wind, Water, and Sunlight (WWS). Energies, 2020, 13, 4934.	1.6	22
15	Development of a Tool for Optimizing Solar and Battery Storage for Container Farming in a Remote Arctic Microgrid. Energies, 2020, 13, 5143.	1.6	13
16	Optimal operational strategy for an offgrid hybrid hydrogen/electricity refueling station powered by solar photovoltaics. Journal of Power Sources, 2020, 451, 227810.	4.0	76
17	Optimizing the layout of onshore wind farms to minimize noise. Applied Energy, 2020, 267, 114896.	5.1	28
18	How much wind power potential does Europe have? Examining European wind power potential with an enhanced socio-technical atlas. Energy Policy, 2019, 132, 1092-1100.	4.2	80

#	ARTICLE	IF	CITATIONS
19	Short-Term Impacts of the Aliso Canyon Natural Gas Blowout on Weather, Climate, Air Quality, and Health in California and Los Angeles. <i>Environmental Science & Technology</i> , 2019, 53, 6081-6093.	4.6	3
20	Short-Term Impacts of the Megaurbanizations of New Delhi and Los Angeles Between 2000 and 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 35-56.	1.2	14
21	The health and climate impacts of carbon capture and direct air capture. <i>Energy and Environmental Science</i> , 2019, 12, 3567-3574.	15.6	83
22	Impacts of Green New Deal Energy Plans on Grid Stability, Costs, Jobs, Health, and Climate in 143 Countries. <i>One Earth</i> , 2019, 1, 449-463.	3.6	152
23	World estimates of PV optimal tilt angles and ratios of sunlight incident upon tilted and tracked PV panels relative to horizontal panels. <i>Solar Energy</i> , 2018, 169, 55-66.	2.9	310
24	Matching demand with supply at low cost in 139 countries among 20 world regions with 100% intermittent wind, water, and sunlight (WWS) for all purposes. <i>Renewable Energy</i> , 2018, 123, 236-248.	4.3	216
25	100% clean, renewable energy studies provide scientific solution that policymakers can rely on. <i>Electricity Journal</i> , 2018, 31, 78-80.	1.3	2
26	Carbon emissions and costs associated with subsidizing New York nuclear instead of replacing it with renewables. <i>Journal of Cleaner Production</i> , 2018, 205, 884-894.	4.6	21
27	100% clean and renewable Wind, Water, and Sunlight (WWS) all-sector energy roadmaps for 53 towns and cities in North America. <i>Sustainable Cities and Society</i> , 2018, 42, 22-37.	5.1	100
28	The United States can keep the grid stable at low cost with 100% clean, renewable energy in all sectors despite inaccurate claims. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5021-E5023.	3.3	53
29	Optimizing investments in coupled offshore wind -electrolytic hydrogen storage systems in Denmark. <i>Journal of Power Sources</i> , 2017, 359, 186-197.	4.0	120
30	100% Clean and Renewable Wind, Water, and Sunlight All-Sector Energy Roadmaps for 139 Countries of the World. <i>Joule</i> , 2017, 1, 108-121.	11.7	732
31	Roadmaps to Transition Countries to 100% Clean, Renewable Energy for All Purposes to Curtail Global Warming, Air Pollution, and Energy Risk. <i>Earth's Future</i> , 2017, 5, 948-952.	2.4	63
32	An intercomparative study of the effects of aircraft emissions on surface air quality. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8325-8344.	1.2	21
33	Reply to Bistline and Blanford: Letter reaffirms conclusions and highlights flaws in previous research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3989-90.	3.3	2
34	Reduced Order Modeling of Contrails: Jet Induction and Vortex Phases. , 2016, , .		0
35	Temporal and spatial tradeoffs in power system modeling with assumptions about storage: An application of the POWER model. <i>Energy</i> , 2016, 117, 198-213.	4.5	85
36	Impact of Aviation on Climate: FAA's Aviation Climate Change Research Initiative (ACCRI) Phase II. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 561-583.	1.7	93

#	ARTICLE	IF	CITATIONS
37	Clean grids with current technology. <i>Nature Climate Change</i> , 2016, 6, 441-442.	8.1	18
38	Flexibility mechanisms and pathways to a highly renewable US electricity future. <i>Energy</i> , 2016, 101, 65-78.	4.5	153
39	A 100% wind, water, sunlight (WWS) all-sector energy plan for Washington State. <i>Renewable Energy</i> , 2016, 86, 75-88.	4.3	37
40	Ring of impact from the mega-urbanization of Beijing between 2000 and 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5740-5756.	1.2	45
41	Ocean Acidification Science Needs for Natural Resource Managers of the North American West Coast. <i>Oceanography</i> , 2015, 25, 170-181.	0.5	19
42	100% clean and renewable wind, water, and sunlight (WWS) all-sector energy roadmaps for the 50 United States. <i>Energy and Environmental Science</i> , 2015, 8, 2093-2117.	15.6	330
43	Renewable build-up pathways for the US: Generation costs are not system costs. <i>Energy</i> , 2015, 81, 437-445.	4.5	51
44	Comparison of low-carbon pathways for California. <i>Climatic Change</i> , 2015, 131, 545-557.	1.7	26
45	Low-cost solution to the grid reliability problem with 100% penetration of intermittent wind, water, and solar for all purposes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15060-15065.	3.3	343
46	Variability and uncertainty of wind power in the California electric power system. <i>Wind Energy</i> , 2014, 17, 1411-1424.	1.9	5
47	Taming hurricanes with arrays of offshore wind turbines. <i>Nature Climate Change</i> , 2014, 4, 195-200.	8.1	53
48	Features of a fully renewable US electricity system: Optimized mixes of wind and solar PV and transmission grid extensions. <i>Energy</i> , 2014, 72, 443-458.	4.5	169
49	A roadmap for repowering California for all purposes with wind, water, and sunlight. <i>Energy</i> , 2014, 73, 875-889.	4.5	65
50	Effects of biomass burning on climate, accounting for heat and moisture fluxes, black and brown carbon, and cloud absorption effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8980-9002.	1.2	188
51	Bitz, Ginoux, Jacobson, Nizkorodov, and Yang Receive 2013 Atmospheric Sciences Ascent Awards: Response. <i>Eos</i> , 2014, 95, 266-266.	0.1	0
52	US East Coast offshore wind energy resources and their relationship to peak-time electricity demand. <i>Wind Energy</i> , 2013, 16, 977-997.	1.9	62
53	Geographical and seasonal variability of the global "practical" wind resources. <i>Applied Geography</i> , 2013, 45, 119-130.	1.7	37
54	The effects of aircraft on climate and pollution. Part II: 20-year impacts of exhaust from all commercial aircraft worldwide treated individually at the subgrid scale. <i>Faraday Discussions</i> , 2013, 165, 369.	1.6	36

#	ARTICLE	IF	CITATIONS
55	Response to comment on paper examining the feasibility of changing New York state's energy infrastructure to one derived from wind, water, and sunlight. Energy Policy, 2013, 62, 1212-1215.	4.2	2
56	Examining the feasibility of converting New York State's all-purpose energy infrastructure to one using wind, water, and sunlight. Energy Policy, 2013, 57, 585-601.	4.2	162
57	Response to Trainer's second commentary on a plan to power the world with wind, water, and solar power. Energy Policy, 2013, 57, 641-643.	4.2	10
58	Bounding the role of black carbon in the climate system: A scientific assessment. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5380-5552.	1.2	4,319
59	Comment on "Prevented Mortality and Greenhouse Gas Emissions from Historical and Projected Nuclear Power". Environmental Science & Technology, 2013, 47, 6715-6717.	4.6	13
60	Comment on "Radiative Absorption Enhancements Due to the Mixing State of Atmospheric Black Carbon". Science, 2013, 339, 393-393.	6.0	24
61	Meeting the world's energy needs entirely with wind, water, and solar power. Bulletin of the Atomic Scientists, 2013, 69, 30-40.	0.2	26
62	Measuring and modeling the hygroscopic growth of two humic substances in mixed aerosol particles of atmospheric relevance. Atmospheric Chemistry and Physics, 2013, 13, 8973-8989.	1.9	15
63	Comparison of model estimates of the effects of aviation emissions on atmospheric ozone and methane. Geophysical Research Letters, 2013, 40, 6004-6009.	1.5	27
64	Effects of plume-scale versus grid-scale treatment of aircraft exhaust photochemistry. Geophysical Research Letters, 2013, 40, 5815-5820.	1.5	7
65	A Probabilistic Ice Habit Model for LES of Contrails. , 2013, , .		2
66	Saturation wind power potential and its implications for wind energy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15679-15684.	3.3	147
67	Recent shift from forest to savanna burning in the Amazon Basin observed by satellite. Environmental Research Letters, 2012, 7, 024020.	2.2	28
68	The effects of rerouting aircraft around the arctic circle on arctic and global climate. Climatic Change, 2012, 115, 709-724.	1.7	11
69	Coupling of highly explicit gas and aqueous chemistry mechanisms for use in 3-D. Atmospheric Environment, 2012, 62, 408-415.	1.9	4
70	Examining the impacts of ethanol (E85) versus gasoline photochemical production of smog in a fog using near-explicit gas- and aqueous-chemistry mechanisms. Environmental Research Letters, 2012, 7, 045901.	2.2	27
71	The carbon abatement potential of high penetration intermittent renewables. Energy and Environmental Science, 2012, 5, 6592.	15.6	53
72	Effects of Urban Surfaces and White Roofs on Global and Regional Climate. Journal of Climate, 2012, 25, 1028-1044.	1.2	148

#	ARTICLE	IF	CITATIONS
73	Where is the ideal location for a US East Coast offshore grid?. Geophysical Research Letters, 2012, 39, .	1.5	41
74	Comparing results from a physical model with satellite and in situ observations to determine whether biomass burning aerosols over the Amazon brighten or burn off clouds. Journal of Geophysical Research, 2012, 117, .	3.3	44
75	Investigating cloud absorption effects: Global absorption properties of black carbon, tar balls, and soil dust in clouds and aerosols. Journal of Geophysical Research, 2012, 117, .	3.3	148
76	Importance of composition and hygroscopicity of BC particles to the effect of BC mitigation on cloud properties: Application to California conditions. Journal of Geophysical Research, 2012, 117, .	3.3	8
77	Reply to the "Opinion on "Worldwide health effects of the Fukushima Daiichi nuclear accident" by B. Richter, Energy Environ. Sci., 2012, 5, DOI:10.1039/c2ee22658h" Energy and Environmental Science, 2012, 5, 8760.	15.6	1
78	Worldwide health effects of the Fukushima Daiichi nuclear accident. Energy and Environmental Science, 2012, 5, 8743.	15.6	268
79	Response to "A critique of Jacobson and Delucchi's proposals for a world renewable energy supply" by Ted Trainer. Energy Policy, 2012, 44, 482-484.	4.2	14
80	Effects of aggregating electric load in the United States. Energy Policy, 2012, 46, 399-416.	4.2	35
81	The Potential of Intermittent Renewables to Meet Electric Power Demand: Current Methods and Emerging Analytical Techniques. Proceedings of the IEEE, 2012, 100, 322-334.	16.4	110
82	Measurements of Aerosol Chemistry during New Particle Formation Events at a Remote Rural Mountain Site. Environmental Science & Technology, 2011, 45, 8208-8216.	4.6	60
83	Vertical mixing of commercial aviation emissions from cruise altitude to the surface. Journal of Geophysical Research, 2011, 116, .	3.3	25
84	Large eddy simulations of contrail development: Sensitivity to initial and ambient conditions over first twenty minutes. Journal of Geophysical Research, 2011, 116, .	3.3	33
85	Hygroscopic growth of common organic aerosol solutes, including humic substances, as derived from water activity measurements. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	31
86	Large Eddy Simulations of Persistent Aircraft Contrails. , 2011, , .		1
87	Microphysical and radiative effects of aerosols on warm clouds during the Amazon biomass burning season as observed by MODIS: impacts of water vapor and land cover. Atmospheric Chemistry and Physics, 2011, 11, 3021-3036.	1.9	57
88	Reducing Offshore Transmission Requirements by Combining Offshore Wind and Wave Farms. IEEE Journal of Oceanic Engineering, 2011, 36, 552-561.	2.1	42
89	CVPS: An operator solving complex chemical and vertical processes simultaneously with sparse-matrix techniques. Atmospheric Environment, 2011, 45, 6820-6827.	1.9	1
90	Providing all global energy with wind, water, and solar power, Part I: Technologies, energy resources, quantities and areas of infrastructure, and materials. Energy Policy, 2011, 39, 1154-1169.	4.2	1,137

#	ARTICLE	IF	CITATIONS
91	Providing all global energy with wind, water, and solar power, Part II: Reliability, system and transmission costs, and policies. <i>Energy Policy</i> , 2011, 39, 1170-1190.	4.2	614
92	A mass, energy, vorticity, and potential enstrophy conserving lateral boundary scheme for the shallow water equations using piecewise linear boundary approximations. <i>Journal of Computational Physics</i> , 2011, 230, 2751-2793.	1.9	3
93	The effects of aircraft on climate and pollution. Part I: Numerical methods for treating the subgrid evolution of discrete size- and composition-resolved contrails from all commercial flights worldwide. <i>Journal of Computational Physics</i> , 2011, 230, 5115-5132.	1.9	30
94	A Monte Carlo approach to generator portfolio planning and carbon emissions assessments of systems with large penetrations of variable renewables. <i>Renewable Energy</i> , 2011, 36, 2278-2286.	4.3	189
95	Numerical Solution to Drop Coalescence/Breakup with a Volume-Conserving, Positive-Definite, and Unconditionally Stable Scheme. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 334-346.	0.6	10
96	Parameterization of subgrid plume dilution for use in large-scale atmospheric simulations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2551-2560.	1.9	19
97	Analysis of emission data from global commercial aviation: 2004 and 2006. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6391-6408.	1.9	203
98	Examining the temperature dependence of ethanol (E85) versus gasoline emissions on air pollution with a largely-explicit chemical mechanism. <i>Atmospheric Environment</i> , 2010, 44, 1192-1199.	1.9	60
99	California offshore wind energy potential. <i>Renewable Energy</i> , 2010, 35, 1244-1254.	4.3	170
100	Power output variations of co-located offshore wind turbines and wave energy converters in California. <i>Renewable Energy</i> , 2010, 35, 2781-2791.	4.3	170
101	Fine scale modeling of wintertime aerosol mass, number, and size distributions in central California. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	20
102	Global-through-urban nested three-dimensional simulation of air pollution with a 13,600-reaction photochemical mechanism. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
103	Short-term effects of controlling fossil-fuel soot, biofuel soot and gases, and methane on climate, Arctic ice, and air pollution health. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	267
104	A comparative study of nucleation parameterizations: 1. Examination and evaluation of the formulations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	45
105	A comparative study of nucleation parameterizations: 2. Three-dimensional model application and evaluation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
106	Enhancement of Local Air Pollution by Urban CO ₂ Domes. <i>Environmental Science & Technology</i> , 2010, 44, 2497-2502.	4.6	102
107	Optimizing offshore transmission links for marine renewable energy farms. , 2010, , .		11
108	Investigating the Effect of Large Wind Farms on Energy in the Atmosphere. <i>Energies</i> , 2009, 2, 816-838.	1.6	27

#	ARTICLE	IF	CITATIONS
109	A Path to Sustainable Energy by 2030. Scientific American, 2009, 301, 58-65.	1.0	269
110	A mass, energy, vorticity, and potential enstrophy conserving lateral fluid–land boundary scheme for the shallow water equations. Journal of Computational Physics, 2009, 228, 1-32.	1.9	20
111	Review of solutions to global warming, air pollution, and energy security. Energy and Environmental Science, 2009, 2, 148-173.	15.6	1,389
112	Probing into regional ozone and particulate matter pollution in the United States: 1. A 1 year CMAQ simulation and evaluation using surface and satellite data. Journal of Geophysical Research, 2009, 114, .	3.3	84
113	Probing into regional O ₃ and particulate matter pollution in the United States: 2. An examination of formation mechanisms through a process analysis technique and sensitivity study. Journal of Geophysical Research, 2009, 114, .	3.3	86
114	A Low-Order Contrail Model for Use with Global-Scale Climate Models. , 2009, , .		1
115	Influence of future anthropogenic emissions on climate, natural emissions, and air quality. Journal of Geophysical Research, 2009, 114, .	3.3	102
116	Effects of biofuels vs. other new vehicle technologies on air pollution, global warming, land use and water. International Journal of Biotechnology, 2009, 11, 14.	1.2	6
117	Coupling and evaluating gas/particle mass transfer treatments for aerosol simulation and forecast. Journal of Geophysical Research, 2008, 113, .	3.3	44
118	Exploring wind energy potential off the California coast. Geophysical Research Letters, 2008, 35, .	1.5	14
119	Effects of wind–powered hydrogen fuel cell vehicles on stratospheric ozone and global climate. Geophysical Research Letters, 2008, 35, .	1.5	61
120	Short–term effects of agriculture on air pollution and climate in California. Journal of Geophysical Research, 2008, 113, .	3.3	14
121	On the causal link between carbon dioxide and air pollution mortality. Geophysical Research Letters, 2008, 35, .	1.5	140
122	Prospects for Future Climate Change and the Reasons for Early Action. Journal of the Air and Waste Management Association, 2008, 58, 1386-1400.	0.9	7
123	Supplying Baseload Power and Reducing Transmission Requirements by Interconnecting Wind Farms. Journal of Applied Meteorology and Climatology, 2007, 46, 1701-1717.	0.6	216
124	Large CO ₂ reductions via offshore wind power matched to inherent storage in energy end-uses. Geophysical Research Letters, 2007, 34, .	1.5	80
125	Effects of Ethanol (E85) versus Gasoline Vehicles on Cancer and Mortality in the United States. Environmental Science & Technology, 2007, 41, 4150-4157.	4.6	273
126	Estimates of atmospheric dry deposition and associated input of nutrients to Gulf of Aqaba seawater. Journal of Geophysical Research, 2007, 112, .	3.3	111

#	ARTICLE	IF	CITATIONS
127	Examining feedbacks of aerosols to urban climate with a model that treats 3D clouds with aerosol inclusions. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	93
128	Comment on "Evaluation of a wind power parameterization using tower observations" by Steven M. Lazarus and Jennifer Bewley. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	2
129	Wind reduction by aerosol particles. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	120
130	Effects of Externally-Through-Internally-Mixed Soot Inclusions within Clouds and Precipitation on Global Climate. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6860-6873.	1.1	135
131	Comments on "The Semidirect Aerosol Effect: Comparison of a Single-Column Model with Large Eddy Simulation for Marine Stratocumulus". <i>Journal of Climate</i> , 2006, 19, 150-151.	1.2	0
132	A numerical model of the partitioning of trace chemical solutes during drop freezing. <i>Journal of Atmospheric Chemistry</i> , 2006, 53, 13-42.	1.4	13
133	Comment on "fully coupled online chemistry within the WRF model" by Grell et al., 2005. <i>Atmospheric Environment</i> 39, 6957-6975. <i>Atmospheric Environment</i> , 2006, 40, 4646-4648.	1.9	3
134	A Refined Method of Parameterizing Absorption Coefficients among Multiple Gases Simultaneously from Line-by-Line Data. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 506-517.	0.6	41
135	The Santa Cruz Eddy. Part I: Observations and Statistics. <i>Monthly Weather Review</i> , 2005, 133, 767-782.	0.5	13
136	Switching to a U.S. hydrogen fuel cell vehicle fleet: The resultant change in emissions, energy use, and greenhouse gases. <i>Journal of Power Sources</i> , 2005, 150, 150-181.	4.0	173
137	Atmospheric structure, composition, and thermodynamics. , 2005, , 12-60.		1
138	The momentum equation in Cartesian and spherical coordinates. , 2005, , 82-137.		0
139	Boundary-layer and surface processes. , 2005, , 228-272.		1
140	Gas-phase species, chemical reactions, and reaction rates. , 2005, , 336-356.		0
141	Urban, free-tropospheric, and stratospheric chemistry. , 2005, , 357-417.		0
142	Methods of solving chemical ordinary differential equations. , 2005, , 418-445.		0
143	Particle components, size distributions, and size structures. , 2005, , 446-469.		0
144	Aerosol emission and nucleation. , 2005, , 470-493.		1

#	ARTICLE	IF	CITATIONS
145	Condensation, evaporation, deposition, and sublimation. , 2005, , 525-552.		0
146	Cloud thermodynamics and dynamics. , 2005, , 598-644.		0
147	Sedimentation, dry deposition, and air-sea exchange. , 2005, , 661-680.		2
148	Model design, application, and testing. , 2005, , 681-708.		1
149	The continuity and thermodynamic energy equations. , 2005, , 61-81.		0
150	Vertical-coordinate conversions. , 2005, , 138-168.		0
151	Numerical solutions to partial differential equations. , 2005, , 169-203.		1
152	Finite-differencing the equations of atmospheric dynamics. , 2005, , 204-227.		0
153	Radiative energy transfer. , 2005, , 273-335.		1
154	Coagulation. , 2005, , 494-524.		1
155	Chemical equilibrium and dissolution processes. , 2005, , 553-597.		0
156	Irreversible aqueous chemistry. , 2005, , 645-660.		0
157	A Solution to the Problem of Nonequilibrium Acid/Base Gas-Particle Transfer at Long Time Step. Aerosol Science and Technology, 2005, 39, 92-103.	1.5	72
158	Correction to "Control of fossil-fuel particulate black carbon and organic matter, possibly the most effective method of slowing global warming". Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	43
159	Enhanced Coagulation Due to Evaporation and Its Effect on Nanoparticle Evolution. Environmental Science & Technology, 2005, 39, 9486-9492.	4.6	69
160	Studying ocean acidification with conservative, stable numerical schemes for nonequilibrium air-ocean exchange and ocean equilibrium chemistry. Journal of Geophysical Research, 2005, 110, .	3.3	109
161	Evaluation of global wind power. Journal of Geophysical Research, 2005, 110, .	3.3	541
162	Cleaning the Air and Improving Health with Hydrogen Fuel-Cell Vehicles. Science, 2005, 308, 1901-1905.	6.0	900

#	ARTICLE	IF	CITATIONS
163	The Short-Term Cooling but Long-Term Global Warming Due to Biomass Burning. <i>Journal of Climate</i> , 2004, 17, 2909-2926.	1.2	89
164	Evolution of nanoparticle size and mixing state near the point of emission. <i>Atmospheric Environment</i> , 2004, 38, 1839-1850.	1.9	146
165	The effect on photochemical smog of converting the U.S. fleet of gasoline vehicles to modern diesel vehicles. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	45
166	Development and application of the Model of Aerosol Dynamics, Reaction, Ionization, and Dissolution (MADRID). <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	184
167	Chemical retention during dry growth riming. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	22
168	Climate response of fossil fuel and biofuel soot, accounting for soot's feedback to snow and sea ice albedo and emissivity. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	349
169	Correction to "Spatial and temporal distributions of U.S. winds and wind power at 80 m derived from measurements". <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	6
170	Modification Of The Standard κ -Equation For The Stable Abl Through Enforced Consistency With Monin-Obukhov Similarity Theory. <i>Boundary-Layer Meteorology</i> , 2003, 106, 383-410.	1.2	52
171	Comment on "A modified semi-implicit method to obtain the evolution of an aerosol by coagulation". <i>Atmospheric Environment</i> , 2003, 37, 2413-2415.	1.9	0
172	A timescale investigation of volatile chemical retention during hydrometeor freezing: Nonrime freezing and dry growth riming without spreading. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	28
173	Point and column aerosol radiative closure during ACE 1: Effects of particle shape and size. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	29
174	Spatial and temporal distributions of U.S. winds and wind power at 80 m derived from measurements. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	250
175	Summary of the cloud chemistry modeling intercomparison: Photochemical box model simulation. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	54
176	Development of mixed-phase clouds from multiple aerosol size distributions and the effect of the clouds on aerosol removal. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	93
177	Modification of aerosol mass and size distribution due to aqueous-phase SO ₂ oxidation in clouds: Comparisons of several models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	120
178	Reply to comment by J. Feichter et al. on "Control of fossil-fuel particulate black carbon and organic matter, possibly the most effective method of slowing global warming". <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	7
179	Size distributions of ionic aerosols measured at Waliguan Observatory: Implication for nitrate gas-to-particle transfer processes in the free troposphere. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	34
180	Reply to comment by J. E. Penner on "Control of fossil-fuel particulate black carbon and organic matter, possibly the most effective method of slowing global warming". <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	4

#	ARTICLE	IF	CITATIONS
181	Reply to comment by D. P. Chock et al. on "Control of fossil-fuel particulate black carbon and organic matter, possibly the most effective method of slowing global warming" Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	0
182	Changing Trends in Sulfur Emissions in Asia: Implications for Acid Deposition, Air Pollution, and Climate. Environmental Science & Technology, 2002, 36, 4707-4713.	4.6	103
183	Control of fossil-fuel particulate black carbon and organic matter, possibly the most effective method of slowing global warming. Journal of Geophysical Research, 2002, 107, ACH 16-1.	3.3	619
184	Analysis of aerosol interactions with numerical techniques for solving coagulation, nucleation, condensation, dissolution, and reversible chemistry among multiple size distributions. Journal of Geophysical Research, 2002, 107, AAC 2-1.	3.3	172
185	AEROSOL PARTICLES IN SMOG AND THE GLOBAL ENVIRONMENT. , 2002, , 115-144.		0
186	EFFECTS OF METEOROLOGY ON AIR POLLUTION. , 2002, , 145-178.		1
187	BASICS AND HISTORY OF DISCOVERY OF ATMOSPHERIC CHEMICALS. , 2002, , 1-28.		0
188	THE SUN, THE EARTH, AND THE EVOLUTION OF THE EARTH'S ATMOSPHERE. , 2002, , 29-48.		0
189	STRUCTURE AND COMPOSITION OF THE PRESENT-DAY ATMOSPHERE. , 2002, , 49-80.		0
190	EFFECTS OF POLLUTION ON VISIBILITY, ULTRAVIOLET RADIATION, AND ATMOSPHERIC OPTICS. , 2002, , 179-208.		0
191	INTERNATIONAL REGULATION OF URBAN SMOG SINCE THE 1940s. , 2002, , 209-240.		0
192	INDOOR AIR POLLUTION. , 2002, , 241-252.		0
193	ACID DEPOSITION. , 2002, , 253-272.		0
194	THE GREENHOUSE EFFECT AND GLOBAL WARMING. , 2002, , 309-352.		0
195	URBAN AIR POLLUTION. , 2002, , 81-114.		1
196	GLOBAL STRATOSPHERIC OZONE REDUCTION. , 2002, , 273-308.		0
197	Is the size distribution of urban aerosols determined by thermodynamic equilibrium?. Atmospheric Environment, 2002, 36, 2349-2365.	1.9	79
198	Global direct radiative forcing due to multicomponent anthropogenic and natural aerosols. Journal of Geophysical Research, 2001, 106, 1551-1568.	3.3	426

#	ARTICLE	IF	CITATIONS
199	GATOR-GCMM: 2. A study of daytime and nighttime ozone layers aloft, ozone in national parks, and weather during the SARMAP field campaign. <i>Journal of Geophysical Research</i> , 2001, 106, 5403-5420.	3.3	59
200	GATOR-GCMM: A global- through urban-scale air pollution and weather forecast model: 1. Model design and treatment of subgrid soil, vegetation, roads, rooftops, water, sea ice, and snow. <i>Journal of Geophysical Research</i> , 2001, 106, 5385-5401.	3.3	165
201	Strong radiative heating due to the mixing state of black carbon in atmospheric aerosols. <i>Nature</i> , 2001, 409, 695-697.	13.7	2,205
202	CLIMATE CHANGE: Enhanced: Recent Reductions in China's Greenhouse Gas Emissions. <i>Science</i> , 2001, 294, 1835-1837.	6.0	165
203	ENERGY: Exploiting Wind Versus Coal. <i>Science</i> , 2001, 293, 1438-1438.	6.0	106
204	A comparative review of inorganic aerosol thermodynamic equilibrium modules: similarities, differences, and their likely causes. <i>Atmospheric Environment</i> , 2000, 34, 117-137.	1.9	218
205	Comparison of a 4000-reaction chemical mechanism with the carbon bond IV and an adjusted carbon bond IV-EX mechanism using SMVGEAR II. <i>Atmospheric Environment</i> , 2000, 34, 3015-3026.	1.9	43
206	Effects of subgrid segregation on ozone production efficiency in a chemical model. <i>Atmospheric Environment</i> , 2000, 34, 2975-2982.	1.9	64
207	A study of gas-aerosol equilibrium and aerosol pH in the remote marine boundary layer during the First Aerosol Characterization Experiment (ACE 1). <i>Journal of Geophysical Research</i> , 2000, 105, 17325-17340.	3.3	126
208	Analysis of gas-aerosol partitioning in the Arctic: Comparison of size-resolved equilibrium model results with field data. <i>Journal of Geophysical Research</i> , 2000, 105, 19891-19903.	3.3	15
209	A physically-based treatment of elemental carbon optics: Implications for global direct forcing of aerosols. <i>Geophysical Research Letters</i> , 2000, 27, 217-220.	1.5	460
210	Effects of Soil Moisture on Temperatures, Winds, and Pollutant Concentrations in Los Angeles. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 607-616.	1.7	73
211	Simulation of Aerosol Dynamics: A Comparative Review of Algorithms Used in Air Quality Models. <i>Aerosol Science and Technology</i> , 1999, 31, 487-514.	1.5	190
212	Studying the effects of calcium and magnesium on size-distributed nitrate and ammonium with EQUISOLV II. <i>Atmospheric Environment</i> , 1999, 33, 3635-3649.	1.9	203
213	Isolating nitrated and aromatic aerosols and nitrated aromatic gases as sources of ultraviolet light absorption. <i>Journal of Geophysical Research</i> , 1999, 104, 3527-3542.	3.3	332
214	A study of sulfur dioxide oxidation pathways over a range of liquid water contents, pH values, and temperatures. <i>Journal of Geophysical Research</i> , 1999, 104, 13749-13769.	3.3	90
215	Title is missing!. <i>Climatic Change</i> , 1998, 38, 497-499.	1.7	11
216	Improvement of SMVGEAR II on vector and scalar machines through absolute error tolerance control. <i>Atmospheric Environment</i> , 1998, 32, 791-796.	1.9	62

#	ARTICLE	IF	CITATIONS
217	Nitric acid scavenging by mineral and biomass burning aerosols. <i>Geophysical Research Letters</i> , 1998, 25, 4185-4188.	1.5	97
218	Studying the effects of aerosols on vertical photolysis rate coefficient and temperature profiles over an urban airshed. <i>Journal of Geophysical Research</i> , 1998, 103, 10593-10604.	3.3	244
219	Numerical Techniques to Solve Condensational and Dissolutional Growth Equations When Growth is Coupled to Reversible Reactions. <i>Aerosol Science and Technology</i> , 1997, 27, 491-498.	1.5	97
220	Development and application of a new air pollution modeling system " Part III. Aerosol-phase simulations. <i>Atmospheric Environment</i> , 1997, 31, 587-608.	1.9	210
221	Development and application of a new air pollution modeling system"II. Aerosol module structure and design. <i>Atmospheric Environment</i> , 1997, 31, 131-144.	1.9	289
222	Development and application of a new air pollution modeling system-part I: Gas-phase simulations. <i>Atmospheric Environment</i> , 1996, 30, 1939-1963.	1.9	106
223	Simulating equilibrium within aerosols and nonequilibrium between gases and aerosols. <i>Journal of Geophysical Research</i> , 1996, 101, 9079-9091.	3.3	168
224	Computation of global photochemistry with SMVGEAR II. <i>Atmospheric Environment</i> , 1995, 29, 2541-2546.	1.9	94
225	Simulating Condensational Growth, Evaporation, and Coagulation of Aerosols Using a Combined Moving and Stationary Size Grid. <i>Aerosol Science and Technology</i> , 1995, 22, 73-92.	1.5	117
226	A model for studying the composition and chemical effects of stratospheric aerosols. <i>Journal of Geophysical Research</i> , 1994, 99, 12897.	3.3	141
227	Modeling coagulation among particles of different composition and size. <i>Atmospheric Environment</i> , 1994, 28, 1327-1338.	1.9	257
228	SMVGEAR: A sparse-matrix, vectorized gear code for atmospheric models. <i>Atmospheric Environment</i> , 1994, 28, 273-284.	1.9	227