

Mark Jacobson

List of Publications by Year in Descending Order

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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.

231
papers

22,260
citations

72
h-index

148
g-index

246
ext. papers

26,157
ext. citations

8.7
avg, IF

7.73
L-index

#	Paper	IF	Citations
231	Optimizing demand response of a modular water reuse system in a remote Arctic microgrid. <i>Journal of Cleaner Production</i> , 2022 , 346, 131110	10.3	1
230	Toward battery electric and hydrogen fuel cell military vehicles for land, air, and sea. <i>Energy</i> , 2022 , 254, 124355	7.9	1
229	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. <i>Renewable Energy</i> , 2021 , 184, 430-430	8.1	4
228	On the socio-technical potential for onshore wind in Europe: A response to critics. <i>Energy Policy</i> , 2021 , 151, 112147	7.2	1
227	Data investigation of installed and output power densities of onshore and offshore wind turbines worldwide. <i>Energy for Sustainable Development</i> , 2021 , 60, 40-51	5.4	20
226	On the correlation between building heat demand and wind energy supply and how it helps to avoid blackouts. <i>Smart Energy</i> , 2021 , 1, 100009		11
225	Onshore wind energy atlas for the United States accounting for land use restrictions and wind speed thresholds. <i>Smart Energy</i> , 2021 , 3, 100046		4
224	How green is blue hydrogen?. <i>Energy Science and Engineering</i> , 2021 , 9, 1676	3.4	63
223	The cost of grid stability with 100 % clean, renewable energy for all purposes when countries are isolated versus interconnected. <i>Renewable Energy</i> , 2021 , 179, 1065-1075	8.1	9
222	Development of a Tool for Optimizing Solar and Battery Storage for Container Farming in a Remote Arctic Microgrid. <i>Energies</i> , 2020 , 13, 5143	3.1	5
221	Optimal operational strategy for an offgrid hybrid hydrogen/electricity refueling station powered by solar photovoltaics. <i>Journal of Power Sources</i> , 2020 , 451, 227810	8.9	28
220	Optimizing the layout of onshore wind farms to minimize noise. <i>Applied Energy</i> , 2020 , 267, 114896	10.7	17
219	100% Clean, Renewable Energy and Storage for Everything 2020 ,		14
218	Co-optimized trading of hybrid wind power plant with retired EV batteries in energy and reserve markets under uncertainties. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 117, 105631	5.1	19
217	Transitioning All Energy in 74 Metropolitan Areas, Including 30 Megacities, to 100% Clean and Renewable Wind, Water, and Sunlight (WWS). <i>Energies</i> , 2020 , 13, 4934	3.1	7
216	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	10.3	1
215	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	4.4	11

214	How much wind power potential does Europe have? Examining European wind power potential with an enhanced socio-technical atlas. <i>Energy Policy</i> , 2019 , 132, 1092-1100	7.2	44
213	The health and climate impacts of carbon capture and direct air capture. <i>Energy and Environmental Science</i> , 2019 , 12, 3567-3574	35.4	37
212	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	8.1	62
211	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	6.8	163
210	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	8.1	133
209	100% clean, renewable energy studies provide scientific solution that policymakers can rely on. <i>Electricity Journal</i> , 2018 , 31, 78-80	2.6	1
208	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	10.1	50
207	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	10.3	5
206	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	11.5	39
205	Optimizing investments in coupled offshore wind -electrolytic hydrogen storage systems in Denmark. <i>Journal of Power Sources</i> , 2017 , 359, 186-197	8.9	66
204	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	27.8	488
203	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	7.9	41
202	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	4.4	12
201	A 100% wind, water, sunlight (WWS) all-sector energy plan for Washington State. <i>Renewable Energy</i> , 2016 , 86, 75-88	8.1	23
200	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	7.9	46
199	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	6.1	62
198	Flexibility mechanisms and pathways to a highly renewable US electricity future. <i>Energy</i> , 2016 , 101, 65-78	7.9	98
197	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	11.5	1

196	Renewable build-up pathways for the US: Generation costs are not system costs. <i>Energy</i> , 2015 , 81, 437-445	4.5	31
195	Comparison of low-carbon pathways for California. <i>Climatic Change</i> , 2015 , 131, 545-557	4.5	23
194	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, 15060-5	11.5	236
193	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	4.4	35
192	Ocean Acidification Science Needs for Natural Resource Managers of the North American West Coast. <i>Oceanography</i> , 2015 , 25, 170-181	2.3	18
191	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	35.4	247
190	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	7.9	134
189	A roadmap for repowering California for all purposes with wind, water, and sunlight. <i>Energy</i> , 2014 , 73, 875-889	7.9	46
188	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	4.1	137
187	Bitz, Ginoux, Jacobson, Nizkorodov, and Yang Receive 2013 Atmospheric Sciences Ascent Awards: Response. <i>Eos</i> , 2014 , 95, 266-266	1.5	
186	Taming hurricanes with arrays of offshore wind turbines. <i>Nature Climate Change</i> , 2014 , 4, 195-200	21.4	27
185	US East Coast offshore wind energy resources and their relationship to peak-time electricity demand. <i>Wind Energy</i> , 2013 , 16, 977-997	3.4	37
184	Geographical and seasonal variability of the global practical wind resources. <i>Applied Geography</i> , 2013 , 45, 119-130	4.4	28
183	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, 369-82	3.6	29
182	Response to comment on paper examining the feasibility of changing New York state's energy infrastructure to one derived from wind, water, and sunlight. <i>Energy Policy</i> , 2013 , 62, 1212-1215	7.2	2
181	Examining the feasibility of converting New York State's all-purpose energy infrastructure to one using wind, water, and sunlight. <i>Energy Policy</i> , 2013 , 57, 585-601	7.2	111
180	Response to Trainer's second commentary on a plan to power the world with wind, water, and solar power. <i>Energy Policy</i> , 2013 , 57, 641-643	7.2	9
179	Bounding the role of black carbon in the climate system: A scientific assessment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5380-5552	4.4	330

178	Comment on "Prevented mortality and greenhouse gas emissions from historical and projected nuclear power". <i>Environmental Science & Technology</i> , 2013 , 47, 6715-7	10.3	10
177	Comment on "Radiative absorption enhancements due to the mixing state of atmospheric black carbon". <i>Science</i> , 2013 , 339, 393	33.3	23
176	Meeting the world's energy needs entirely with wind, water, and solar power. <i>Bulletin of the Atomic Scientists</i> , 2013 , 69, 30-40	1.6	19
175	Variability and uncertainty of wind power in the California electric power system. <i>Wind Energy</i> , 2013 , n/a-n/a	3.4	3
174	Measuring and modeling the hygroscopic growth of two humic substances in mixed aerosol particles of atmospheric relevance. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8973-8989	6.8	13
173	Comparison of model estimates of the effects of aviation emissions on atmospheric ozone and methane. <i>Geophysical Research Letters</i> , 2013 , 40, 6004-6009	4.9	19
172	Effects of plume-scale versus grid-scale treatment of aircraft exhaust photochemistry. <i>Geophysical Research Letters</i> , 2013 , 40, 5815-5820	4.9	5
171	Response to a critique of Jacobson and Delucchi's proposals for a world renewable energy supply by Ted Trainer. <i>Energy Policy</i> , 2012 , 44, 482-484	7.2	13
170	Effects of aggregating electric load in the United States. <i>Energy Policy</i> , 2012 , 46, 399-416	7.2	21
169	The Potential of Intermittent Renewables to Meet Electric Power Demand: Current Methods and Emerging Analytical Techniques. <i>Proceedings of the IEEE</i> , 2012 , 100, 322-334	14.3	74
168	The effects of rerouting aircraft around the arctic circle on arctic and global climate. <i>Climatic Change</i> , 2012 , 115, 709-724	4.5	9
167	Coupling of highly explicit gas and aqueous chemistry mechanisms for use in 3-D. <i>Atmospheric Environment</i> , 2012 , 62, 408-415	5.3	3
166	Examining the impacts of ethanol (E85) versus gasoline photochemical production of smog in a fog using near-explicit gas- and aqueous-chemistry mechanisms. <i>Environmental Research Letters</i> , 2012 , 7, 045901	6.2	11
165	The carbon abatement potential of high penetration intermittent renewables. <i>Energy and Environmental Science</i> , 2012 , 5, 6592	35.4	34
164	Effects of Urban Surfaces and White Roofs on Global and Regional Climate. <i>Journal of Climate</i> , 2012 , 25, 1028-1044	4.4	116
163	Where is the ideal location for a US East Coast offshore grid?. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	21
162	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. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		38
161	Investigating cloud absorption effects: Global absorption properties of black carbon, tar balls, and soil dust in clouds and aerosols. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		121

160	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, n/a-n/a		7
159	Reply to the Opinion on Worldwide health effects of the Fukushima Daiichi nuclear accident by B. Richter, <i>Energy Environ. Sci.</i> , 2012, 5, DOI:10.1039/c2ee22658h <i>Energy and Environmental Science</i> , 2012 , 5, 8760	35.4	1
158	Worldwide health effects of the Fukushima Daiichi nuclear accident. <i>Energy and Environmental Science</i> , 2012 , 5, 8743	35.4	184
157	Saturation wind power potential and its implications for wind energy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15679-84	11.5	96
156	Recent shift from forest to savanna burning in the Amazon Basin observed by satellite. <i>Environmental Research Letters</i> , 2012 , 7, 024020	6.2	24
155	Vertical mixing of commercial aviation emissions from cruise altitude to the surface. <i>Journal of Geophysical Research</i> , 2011 , 116,		22
154	Large eddy simulations of contrail development: Sensitivity to initial and ambient conditions over first twenty minutes. <i>Journal of Geophysical Research</i> , 2011 , 116,		23
153	Hygroscopic growth of common organic aerosol solutes, including humic substances, as derived from water activity measurements. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		27
152	Large Eddy Simulations of Persistent Aircraft Contrails 2011 ,		1
151	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. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3021-3036	6.8	46
150	Reducing Offshore Transmission Requirements by Combining Offshore Wind and Wave Farms. <i>IEEE Journal of Oceanic Engineering</i> , 2011 , 36, 552-561	3.3	21
149	CVPS: An operator solving complex chemical and vertical processes simultaneously with sparse-matrix techniques. <i>Atmospheric Environment</i> , 2011 , 45, 6820-6827	5.3	0
148	Providing all global energy with wind, water, and solar power, Part I: Technologies, energy resources, quantities and areas of infrastructure, and materials. <i>Energy Policy</i> , 2011 , 39, 1154-1169	7.2	893
147	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	7.2	491
146	Measurements of aerosol chemistry during new particle formation events at a remote rural mountain site. <i>Environmental Science & Technology</i> , 2011 , 45, 8208-16	10.3	52
145	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	4.1	2
144	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	4.1	29
143	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	8.1	137

142	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	2.1	9
141	Fine scale modeling of wintertime aerosol mass, number, and size distributions in central California. <i>Journal of Geophysical Research</i> , 2010 , 115,		17
140	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,		14
139	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,		223
138	A comparative study of nucleation parameterizations: 1. Examination and evaluation of the formulations. <i>Journal of Geophysical Research</i> , 2010 , 115,		37
137	A comparative study of nucleation parameterizations: 2. Three-dimensional model application and evaluation. <i>Journal of Geophysical Research</i> , 2010 , 115,		28
136	Enhancement of local air pollution by urban CO(2) domes. <i>Environmental Science & Technology</i> , 2010 , 44, 2497-502	10.3	72
135	Optimizing offshore transmission links for marine renewable energy farms 2010 ,		7
134	Parameterization of subgrid plume dilution for use in large-scale atmospheric simulations. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2551-2560	6.8	17
133	Analysis of emission data from global commercial aviation: 2004 and 2006. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6391-6408	6.8	147
132	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	5.3	37
131	California offshore wind energy potential. <i>Renewable Energy</i> , 2010 , 35, 1244-1254	8.1	126
130	Power output variations of co-located offshore wind turbines and wave energy converters in California. <i>Renewable Energy</i> , 2010 , 35, 2781-2791	8.1	128
129	Investigating the Effect of Large Wind Farms on Energy in the Atmosphere. <i>Energies</i> , 2009 , 2, 816-838	3.1	23
128	A path to sustainable energy by 2030. <i>Scientific American</i> , 2009 , 301, 58-65	0.5	208
127	A mass, energy, vorticity, and potential enstrophy conserving lateral fluid and boundary scheme for the shallow water equations. <i>Journal of Computational Physics</i> , 2009 , 228, 1-32	4.1	16
126	Review of solutions to global warming, air pollution, and energy security. <i>Energy and Environmental Science</i> , 2009 , 2, 148-173	35.4	1090
125	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. <i>Journal of Geophysical Research</i> , 2009 , 114,		71

124	Probing into regional O3 and particulate matter pollution in the United States: 2. An examination of formation mechanisms through a process analysis technique and sensitivity study. <i>Journal of Geophysical Research</i> , 2009 , 114,		72
123	A Low-Order Contrail Model for Use with Global-Scale Climate Models 2009 ,		1
122	Influence of future anthropogenic emissions on climate, natural emissions, and air quality. <i>Journal of Geophysical Research</i> , 2009 , 114,		91
121	Effects of biofuels vs. other new vehicle technologies on air pollution, global warming, land use and water. <i>International Journal of Biotechnology</i> , 2009 , 11, 14	0	5
120	Coupling and evaluating gas/particle mass transfer treatments for aerosol simulation and forecast. <i>Journal of Geophysical Research</i> , 2008 , 113,		37
119	Exploring wind energy potential off the California coast. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	12
118	Effects of wind-powered hydrogen fuel cell vehicles on stratospheric ozone and global climate. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	31
117	Short-term effects of agriculture on air pollution and climate in California. <i>Journal of Geophysical Research</i> , 2008 , 113,		14
116	On the causal link between carbon dioxide and air pollution mortality. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	100
115	Prospects for future climate change and the reasons for early action. <i>Journal of the Air and Waste Management Association</i> , 2008 , 58, 1386-400	2.4	5
114	Estimates of atmospheric dry deposition and associated input of nutrients to Gulf of Aqaba seawater. <i>Journal of Geophysical Research</i> , 2007 , 112,		90
113	Examining feedbacks of aerosols to urban climate with a model that treats 3-D clouds with aerosol inclusions. <i>Journal of Geophysical Research</i> , 2007 , 112,		71
112	Supplying Baseload Power and Reducing Transmission Requirements by Interconnecting Wind Farms. <i>Journal of Applied Meteorology and Climatology</i> , 2007 , 46, 1701-1717	2.7	157
111	Large CO2 reductions via offshore wind power matched to inherent storage in energy end-uses. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	52
110	Effects of ethanol (E85) versus gasoline vehicles on cancer and mortality in the United States. <i>Environmental Science & Technology</i> , 2007 , 41, 4150-7	10.3	226
109	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	5.3	2
108	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		1
107	Wind reduction by aerosol particles. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	94

106	Effects of externally-through-internally-mixed soot inclusions within clouds and precipitation on global climate. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6860-73	2.8	115
105	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	4.4	
104	A numerical model of the partitioning of trace chemical solutes during drop freezing. <i>Journal of Atmospheric Chemistry</i> , 2006 , 53, 13-42	3.2	10
103	Correction to "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> , 2005 , 110, n/a-n/a		35
102	Enhanced coagulation due to evaporation and its effect on nanoparticle evolution. <i>Environmental Science & Technology</i> , 2005 , 39, 9486-92	10.3	57
101	Studying ocean acidification with conservative, stable numerical schemes for nonequilibrium air-ocean exchange and ocean equilibrium chemistry. <i>Journal of Geophysical Research</i> , 2005 , 110,		78
100	Evaluation of global wind power. <i>Journal of Geophysical Research</i> , 2005 , 110,		375
99	Cleaning the air and improving health with hydrogen fuel-cell vehicles. <i>Science</i> , 2005 , 308, 1901-5	33.3	729
98	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	2.1	37
97	The Santa Cruz Eddy. Part I: Observations and Statistics. <i>Monthly Weather Review</i> , 2005 , 133, 767-782	2.4	11
96	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	8.9	122
95	Atmospheric structure, composition, and thermodynamics 2005 , 12-60		1
94	The momentum equation in Cartesian and spherical coordinates 2005 , 82-137		
93	Boundary-layer and surface processes 2005 , 228-272		0
92	Gas-phase species, chemical reactions, and reaction rates 2005 , 336-356		
91	Urban, free-tropospheric, and stratospheric chemistry 2005 , 357-417		
90	Methods of solving chemical ordinary differential equations 2005 , 418-445		
89	Particle components, size distributions, and size structures 2005 , 446-469		

88	Aerosol emission and nucleation 2005 , 470-493		1
87	Condensation, evaporation, deposition, and sublimation 2005 , 525-552		
86	Cloud thermodynamics and dynamics 2005 , 598-644		
85	Sedimentation, dry deposition, and air-sea exchange 2005 , 661-680		2
84	Model design, application, and testing 2005 , 681-708		1
83	Appendix A Conversions and constants 2005 , 709-713		
82	The continuity and thermodynamic energy equations 2005 , 61-81		
81	Vertical-coordinate conversions 2005 , 138-168		
80	Numerical solutions to partial differential equations 2005 , 169-203		
79	Finite-differencing the equations of atmospheric dynamics 2005 , 204-227		
78	Radiative energy transfer 2005 , 273-335		1
77	Coagulation 2005 , 494-524		1
76	Chemical equilibrium and dissolution processes 2005 , 553-597		
75	Irreversible aqueous chemistry 2005 , 645-660		
74	Appendix B Tables 2005 , 714-751		
73	A Solution to the Problem of Nonequilibrium Acid/Base Gas-Particle Transfer at Long Time Step. <i>Aerosol Science and Technology</i> , 2005 , 39, 92-103	3-4	64
72	Fundamentals of Atmospheric Modeling 2005 ,		393
71	The Short-Term Cooling but Long-Term Global Warming Due to Biomass Burning. <i>Journal of Climate</i> , 2004 , 17, 2909-2926	4-4	68

70	Evolution of nanoparticle size and mixing state near the point of emission. <i>Atmospheric Environment</i> , 2004 , 38, 1839-1850	5-3	132
69	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,	4-9	28
68	Development and application of the Model of Aerosol Dynamics, Reaction, Ionization, and Dissolution (MADRID). <i>Journal of Geophysical Research</i> , 2004 , 109,		158
67	Chemical retention during dry growth riming. <i>Journal of Geophysical Research</i> , 2004 , 109,		18
66	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		295
65	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,		6
64	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	3-4	45
63	Comment on "A modified semi-implicit method to obtain the evolution of an aerosol by coagulation" <i>Atmospheric Environment</i> , 2003 , 37, 2413-2415	5-3	
62	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,		25
61	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		26
60	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		198
59	Summary of the cloud chemistry modeling intercomparison: Photochemical box model simulation. <i>Journal of Geophysical Research</i> , 2003 , 108,		43
58	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,		82
57	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,		104
56	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		7
55	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,		29
54	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		4
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