

# Robert B Pierce

## 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.

128  
papers

4,384  
citations

36  
h-index

60  
g-index

133  
ext. papers

4,932  
ext. citations

5.3  
avg, IF

4.66  
L-index

#	Paper	IF	Citations
128	Observations of the Development and Vertical Structure of the Lake Breeze Circulation During the 2017 Lake Michigan Ozone Study. <i>Journals of the Atmospheric Sciences</i> , <b>2022</b> ,	2.1	1
127	The <i>FAST</i> Fires, Asian, and Stratospheric Transport</i> Las Vegas Ozone Study (<i>FAST</i>-LVOS). <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 1707-1737	6.8	1
126	Quantifying Carbon Monoxide Emissions on the Scale of Large Wildfires. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	3
125	Impacts of lake breeze meteorology on ozone gradient observations along Lake Michigan shorelines in Wisconsin. <i>Atmospheric Environment</i> , <b>2022</b> , 269, 118834	5.3	1
124	Observations of the lower atmosphere from the 2021 WiscoDISCO campaign. <i>Earth System Science Data</i> , <b>2022</b> , 14, 2129-2145	10.5	0
123	Overview of the Lake Michigan Ozone Study 2017. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 1-47	6.1	4
122	PM <sub>2.5</sub> chemistry, organosulfates, and secondary organic aerosol during the 2017 Lake Michigan Ozone Study. <i>Atmospheric Environment</i> , <b>2021</b> , 244, 117939	5.3	19
121	Satellite Monitoring for Air Quality and Health. <i>Annual Review of Biomedical Data Science</i> , <b>2021</b> , 4, 417-447	4.7	6
120	Ozone depletion due to dust release of iodine in the free troposphere.. <i>Science Advances</i> , <b>2021</b> , 7, eabj6544	5.4	0
119	Sensitivity of Meteorological Skill to Selection of WRF-Chem Physical Parameterizations and Impact on Ozone Prediction During the Lake Michigan Ozone Study (LMOS). <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031971	4.4	13
118	Evaluating Sentinel-5P TROPOMI tropospheric NO <sub>2</sub> column densities with airborne and Pandora spectrometers near New York City and Long Island Sound. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 6113-6140	4	29
117	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090707	4.9	11
116	Sensitivity of Ozone Production to NO <sub>x</sub> and VOC Along the Lake Michigan Coastline. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 10989-11006	4.4	20
115	TEMPO Green Paper: Chemistry, physics, and meteorology experiments with the Tropospheric Emissions: monitoring of pollution instrument <b>2019</b> ,		8
114	Evaluating the impact of spatial resolution on tropospheric NO <sub>2</sub> column comparisons within urban areas using high-resolution airborne data. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 6091-6111	4	30
113	April 2008 Saharan dust event: Its contribution to PM concentrations over the Anatolian Peninsula and relation with synoptic conditions. <i>Science of the Total Environment</i> , <b>2018</b> , 633, 317-328	10.2	16
112	HTAP2 multi-model estimates of premature human mortality due to intercontinental transport of air pollution and emission sectors. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10497-10520	6.8	34

111	The Dawn of Geostationary Air Quality Monitoring: Case Studies from Seoul and Los Angeles. <i>Frontiers in Environmental Science</i> , <b>2018</b> , 6,	4.8	21
110	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 106-128	6.1	40
109	Summertime tropospheric ozone enhancement associated with a cold front passage due to stratosphere-to-troposphere transport and biomass burning: Simultaneous ground-based lidar and airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 1293-1311	4.4	12
108	Entrainment of stratospheric air and Asian pollution by the convective boundary layer in the southwestern U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 1312-1337	4.4	26
107	Tropospheric Emissions: Monitoring of Pollution (TEMPO). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 186, 17-39	2.1	163
106	An Assessment of Ground Level and Free Tropospheric Ozone Over California and Nevada. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 10,089-10,102	4.4	7
105	Impact of intercontinental pollution transport on North American ozone air pollution: an HTAP phase 2 multi-model study. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 5721-5750	6.8	36
104	Contribution of dissolved organic matter to submicron water-soluble organic aerosols in the marine boundary layer over the eastern equatorial Pacific. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 7695-7707	6.8	14
103	A pervasive role for biomass burning in tropical high ozone/low water structures. <i>Nature Communications</i> , <b>2016</b> , 7, 10267	17.4	27
102	Interannual Variability in Baseline Ozone and Its Relationship to Surface Ozone in the Western U.S. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 2994-3001	10.3	13
101	Development and validation of satellite-based estimates of surface visibility. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 409-422	4	4
100	Real-Time Simulation of the GOES-R ABI for User Readiness and Product Evaluation. <i>Bulletin of the American Meteorological Society</i> , <b>2016</b> , 97, 245-261	6.1	20
99	Seasonal monitoring and estimation of regional aerosol distribution over Po valley, northern Italy, using a high-resolution MAIAC product. <i>Atmospheric Environment</i> , <b>2016</b> , 141, 106-121	5.3	20
98	Assessment of biomass burning smoke influence on environmental conditions for multi-year tornado outbreaks by combining aerosol-aware microphysics and fire emission constraints. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 10294-10311	4.4	17
97	Active and widespread halogen chemistry in the tropical and subtropical free troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 9281-6	11.5	78
96	Aircraft measurements of BrO, IO, glyoxal, NO <sub>2</sub> , H <sub>2</sub> O, O <sub>3</sub> , D <sub>2</sub> , and aerosol extinction profiles in the tropics: comparison with aircraft-/ship-based in situ and lidar measurements. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 2121-2148	4	87
95	Characterizing the impacts of vertical transport and photochemical ozone production on an exceedance area. <i>Atmospheric Environment</i> , <b>2015</b> , 109, 342-350	5.3	10
94	Variability and sources of surface ozone at rural sites in Nevada, USA: Results from two years of the Nevada Rural Ozone Initiative. <i>Science of the Total Environment</i> , <b>2015</b> , 530-531, 471-482	10.2	19

93	An overview of the 2013 Las Vegas Ozone Study (LVOS): Impact of stratospheric intrusions and long-range transport on surface air quality. <i>Atmospheric Environment</i> , <b>2015</b> , 109, 305-322	5.3	67
92	Stratospheric intrusions, the Santa Ana winds, and wildland fires in Southern California. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6091-6097	4.9	22
91	Characterizing the lifetime and occurrence of stratospheric-tropospheric exchange events in the rocky mountain region using high-resolution ozone measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 12410-12424	4.4	26
90	Toward enhanced capability for detecting and predicting dust events in the western United States: the Arizona case study. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 12595-12610	6.8	11
89	Central American biomass burning smoke can increase tornado severity in the U.S.. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 956-965	4.9	44
88	The contribution of Saharan dust in PM(10) concentration levels in Anatolian Peninsula of Turkey. <i>Science of the Total Environment</i> , <b>2014</b> , 488-489, 413-21	10.2	33
87	Satellite data of atmospheric pollution for U.S. air quality applications: Examples of applications, summary of data end-user resources, answers to FAQs, and common mistakes to avoid. <i>Atmospheric Environment</i> , <b>2014</b> , 94, 647-662	5.3	148
86	Lidar-Measured Wind Profiles: The Missing Link in the Global Observing System. <i>Bulletin of the American Meteorological Society</i> , <b>2014</b> , 95, 543-564	6.1	87
85	Changes in nitrogen oxides emissions in California during 2005-2010 indicated from top-down and bottom-up emission estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 12,928-12,952	4.4	14
84	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 5830-5866	4.4	178
83	Airborne observations and modeling of springtime stratosphere-to-troposphere transport over California. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 12481-12494	6.8	33
82	Impacts of transported background pollutants on summertime western US air quality: model evaluation, sensitivity analysis and data assimilation. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 359-391	6.8	21
81	Application of MAIAC high spatial resolution aerosol retrievals over Po Valley (Italy) <b>2013</b> ,		1
80	Impact of Southern California anthropogenic emissions on ozone pollution in the mountain states: Model analysis and observational evidence from space. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 12,784-12,803	4.4	17
79	Sectoral and geographical contributions to summertime continental United States (CONUS) black carbon spatial distributions. <i>Atmospheric Environment</i> , <b>2012</b> , 51, 165-174	5.3	8
78	Radiative forcing due to enhancements in tropospheric ozone and carbonaceous aerosols caused by Asian fires during spring 2008. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		14
77	Retrieving aerosol in a cloudy environment: aerosol availability as a function of spatial and temporal resolution <b>2012</b> ,		2
76	Retrieving aerosol in a cloudy environment: aerosol product availability as a function of spatial resolution. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 1823-1840	4	42

75	Transport and mixing patterns over Central California during the carbonaceous aerosol and radiative effects study (CARES). <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1759-1783	6.8	56
74	Characteristics of tropospheric ozone depletion events in the Arctic spring: analysis of the ARCTAS, ARCPAC, and ARCIONS measurements and satellite BrO observations. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 9909-9922	6.8	33
73	Attribution and evolution of ozone from Asian wild fires using satellite and aircraft measurements during the ARCTAS campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 169-188	6.8	16
72	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2423-2453	6.8	217
71	Multi-scale modeling study of the source contributions to near-surface ozone and sulfur oxides levels over California during the ARCTAS-CARB period. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 3173-3194 <sup>21</sup>	6.8	21
70	Meteorological and air quality forecasting using the WRFSTEM model during the 2008 ARCTAS field campaign. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 6901-6910	5.3	12
69	An observational and modeling strategy to investigate the impact of remote sources on local air quality: A Houston, Texas, case study from the Second Texas Air Quality Study (TexAQS II). <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		25
68	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	102
67	Impacts of transported background ozone on California air quality during the ARCTAS-CARB period: a multi-scale modeling study. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 6947-6968	6.8	60
66	A regional scale modeling analysis of aerosol and trace gas distributions over the eastern Pacific during the INTEX-B field campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 2091-2115	6.8	37
65	Lagrangian sampling of 3-D air quality model results for regional transport contributions to sulfate aerosol concentrations at Baltimore, MD, in summer 2004. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 3275-3288 <sup>3</sup>	5.3	11
64	The impact of chemical lateral boundary conditions on CMAQ predictions of tropospheric ozone over the continental United States. <i>Environmental Fluid Mechanics</i> , <b>2009</b> , 9, 43-58	2.2	59
63	Overview of the Second Texas Air Quality Study (TexAQS II) and the Gulf of Mexico Atmospheric Composition and Climate Study (GoMACCS). <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		138
62	Ozone production in boreal fire smoke plumes using observations from the Tropospheric Emission Spectrometer and the Ozone Monitoring Instrument. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		37
61	Impacts of background ozone production on Houston and Dallas, Texas, air quality during the Second Texas Air Quality Study field mission. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		37
60	Sensitivity of photolysis frequencies and key tropospheric oxidants in a global model to cloud vertical distributions and optical properties. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		8
59	Assessing satellite-based fire data for use in the National Emissions Inventory. <i>Journal of Applied Remote Sensing</i> , <b>2009</b> , 3, 031504	1.4	13
58	Noncoincident validation of Aura MLS observations using the Langley Research Center Lagrangian chemistry and transport model. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		6

57	Downscale linkage of global model output for regional chemical transport modeling: Method and general performance. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		24
56	Long-range convective ozone transport during INTEX. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		5
55	Air Quality Forecast Verification Using Satellite Data. <i>Journal of Applied Meteorology and Climatology</i> , <b>2008</b> , 47, 425-442	2.7	26
54	Remote Sensing of Tropospheric Pollution from Space. <i>Bulletin of the American Meteorological Society</i> , <b>2008</b> , 89, 805-822	6.1	91
53	Intercomparison of near-real-time biomass burning emissions estimates constrained by satellite fire data. <i>Journal of Applied Remote Sensing</i> , <b>2008</b> , 2, 021504	1.4	44
52	Intercontinental Chemical Transport Experiment Ozonesonde Network Study (IONS) 2004: 1. Summertime upper troposphere/lower stratosphere ozone over northeastern North America. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		51
51	Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		68
50	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		89
49	Intercontinental Chemical Transport Experiment Ozonesonde Network Study (IONS) 2004: 2. Tropospheric ozone budgets and variability over northeastern North America. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		57
48	Chemical data assimilation estimates of continental U.S. ozone and nitrogen budgets during the Intercontinental Chemical Transport Experiment North America. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		92
47	Impact of multiscale dynamical processes and mixing on the chemical composition of the upper troposphere and lower stratosphere during the Intercontinental Chemical Transport Experiment North America. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		16
46	Radiative effect of clouds on tropospheric chemistry in a global three-dimensional chemical transport model. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		44
45	Improving National Air Quality Forecasts with Satellite Aerosol Observations. <i>Bulletin of the American Meteorological Society</i> , <b>2005</b> , 86, 1249-1262	6.1	255
44	Resolution dependence of cross-tropopause ozone transport over east Asia. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		15
43	A modeling study of an East Asian convective complex during March 2001. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		13
42	A three-dimensional regional modeling study of the impact of clouds on sulfate distributions during TRACE-P. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		7
41	Chemical climatology of the middle atmosphere simulated by the NASA Langley Research Center Interactive Modeling Project for Atmospheric Chemistry and Transport (IMPACT) model. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		3
40	On the distribution of ozone in stratospheric anticyclones. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		24

39	An intercomparison and evaluation of aircraft-derived and simulated CO from seven chemical transport models during the TRACE-P experiment. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,	59
38	Regional Air Quality Modeling System (RAQMS) predictions of the tropospheric ozone budget over east Asia. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,	62
37	Tracer-based determination of vortex descent in the 1999/2000 Arctic winter. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SOL 22-1	23
36	Large-scale chemical evolution of the Arctic vortex during the 1999/2000 winter: HALOE/POAM III Lagrangian photochemical modeling for the SAGE III Ozone Loss and Validation Experiment (SOLVE) campaign. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SOL 60-1-SOL 60-26	12
35	A climatology of stratospheric polar vortices and anticyclones. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACL 10-1	102
34	Response of middle atmosphere chemistry and dynamics to volcanically elevated sulfate aerosol: Three-dimensional coupled model simulations. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 27255-27275	18
33	Observations of Southern Polar Descent and Coupling in the Thermosphere, Mesosphere and Stratosphere Provided by Haloe. <i>Geophysical Monograph Series</i> , <b>2000</b> , 191-206	1.1
32	Dynamical climatology of the NASA Langley Research Center Interactive Modeling Project for Atmospheric Chemistry and Transport (IMPACT) model. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 29109-29134	5
31	NDSC millimeter wave ozone observations at Lauder, New Zealand, 1992-1998: Improved methodology, validation, and variation study. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 24263-24281	8
30	The GCM Reality Intercomparison Project for SPARC (GRIPS): Scientific Issues and Initial Results. <i>Bulletin of the American Meteorological Society</i> , <b>2000</b> , 81, 781-796	6.1 129
29	Tropical aerosol in the Aleutian High. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 6281-6290	25
28	The contribution of mixing in Lagrangian photochemical predictions of polar ozone loss over the Arctic in summer 1997. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 26597-26609	32
27	Comparison of satellite and in situ ozone measurements in the lower stratosphere. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 13971-13979	4
26	Large-scale stratospheric ozone photochemistry and transport during the POLARIS Campaign. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 26525-26545	22
25	Seasonal evolution of total and gravity wave induced laminae in ozonesonde data in the tropics and subtropics. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1863-1866	4.9 20
24	Seasonal evolution of Rossby and gravity wave induced laminae in ozonesonde data obtained from Wallops Island, Virginia. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1859-1862	4.9 38
23	Seasonal ozone variations in the isentropic layer between 330 and 380 K as observed by SAGE II: Implications of extratropical cross-tropopause transport. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 28647-28659	21
22	HALOE observations of the Arctic Vortex during the 1997 spring: Horizontal structure in the lower stratosphere. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 2701-2704	4.9 18

21	Intercomparison of ozone measurements in the lower stratosphere from the UARS Halogen Occultation Experiment and the ER-2 UV absorption photometer. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 13135-13140		3
20	Re-formation of chlorine reservoirs in southern hemisphere polar spring. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 13141-13152		24
19	Photochemical calculations along air mass trajectories during ASHOE/MAESA. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 13153-13167		16
18	Lagrangian forecasting during ASHOE/MAESA: Analysis of predictive skill for analyzed and reverse-domain-filled potential vorticity. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 13169-13182		19
17	Evolution of southern hemisphere spring air masses observed by HALOE. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 213-216	4-9	27
16	Mixing Processes within the Polar Night Jet. <i>Journals of the Atmospheric Sciences</i> , <b>1994</b> , 51, 2957-2972	2.1	58
15	Spring Dehydration in the Antarctic Stratospheric Vortex Observed by HALOE. <i>Journals of the Atmospheric Sciences</i> , <b>1994</b> , 51, 2931-2941	2.1	20
14	Chaotic advection in the stratosphere: Implications for the dispersal of chemically perturbed air from the polar vortex. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 18589-18595		102
13	Observational Evidence of Preferred Flow Regimes in the Northern Hemisphere Winter Stratosphere. <i>Journals of the Atmospheric Sciences</i> , <b>1993</b> , 50, 1936-1949	2.1	17
12	The Interaction of Radiative and Dynamical Processes during a Simulated Sudden Stratospheric Warming. <i>Journals of the Atmospheric Sciences</i> , <b>1993</b> , 50, 3829-3851	2.1	18
11	A Comparison of Simulated Precipitation by Hybrid Isentropic-Sigma and Sigma Models. <i>Monthly Weather Review</i> , <b>1993</b> , 121, 2088-2114	2.4	30
10	Numerical Investigations with a Hybrid IsentropicSigma Model. Part II: The Inclusion of Moist Processes. <i>Journals of the Atmospheric Sciences</i> , <b>1991</b> , 48, 2025-2043	2.1	8
9	Numerical Investigations with a Hybrid IsentropicSigma Model. Part I: Normal-Mode Characteristics. <i>Journals of the Atmospheric Sciences</i> , <b>1991</b> , 48, 2005-2024	2.1	9
8	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic climate (ARCPAC) project		9
7	Transport and mixing patterns over Central California during the Carbonaceous Aerosol and Radiative Effects Study (CARES)		4
6	Airborne observations and modeling of springtime stratosphere-to-troposphere transport over California		2
5	High spatial resolution aerosol retrievals used for daily particulate matter monitoring over Po valley, northern Italy		7
4	Airborne measurements of HCl from the marine boundary layer to the lower stratosphere over the North Pacific Ocean during INTEX-B		19



- 3 Trans-Pacific transport and evolution of aerosols and trace gases from Asia during the INTEX-B field campaign 1
- 2 Multi-scale modeling study of the source contributions to near-surface ozone and sulfur oxides levels over California during the ARCTAS-CARB period 1
- 1 Complexity in the evolution, composition, and spectroscopy of brown carbon in aircraft measurements of wildfire plumes. *Geophysical Research Letters*, 49 2