Allen Goldstein

List of Publications by Year
in descending order

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384 papers	46,208 citations	2565 99 h-index	3508 188 g-index
532 all docs	532 docs citations	532 times ranked	28666 citing authors

#	Article	IF	Citations
1	The formation, properties and impact of secondary organic aerosol: current and emerging issues. Atmospheric Chemistry and Physics, 2009, 9, 5155-5236.	1.9	3,486
2	FLUXNET: A New Tool to Study the Temporal and Spatial Variability of Ecosystemâ€“Scale Carbon Dioxide, Water Vapor, and Energy Flux Densities. Bulletin of the American Meteorological Society, 2001, 82, 2415-2434.	1.7	3,018
3	Energy balance closure at FLUXNET sites. Agricultural and Forest Meteorology, 2002, 113, 223-243.	1.9	1,877
4	Known and Unexplored Organic Constituents in the Earth's Atmosphere. Environmental Science & Technology, 2007, 41, 1514-1521.	4.6	1,317
5	Environmental controls over carbon dioxide and water vapor exchange of terrestrial vegetation. Agricultural and Forest Meteorology, 2002, 113, 97-120.	1.9	1,133
6	Modeling and measuring the effects of disturbance history and climate on carbon and water budgets in evergreen needleleaf forests. Agricultural and Forest Meteorology, 2002, 113, 185-222.	1.9	765
7	Volatile chemical products emerging as largest petrochemical source of urban organic emissions. Science, 2018, 359, 760-764.	6.0	716
8	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	2.4	646
9	Seasonality of ecosystem respiration and gross primary production as derived from FLUXNET measurements. Agricultural and Forest Meteorology, 2002, 113, 53-74.	1.9	606
10	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. Reviews of Geophysics, 2017, 55, 509-559.	9.0	548
11	Deriving a light use efficiency model from eddy covariance flux data for predicting daily gross primary production across biomes. Agricultural and Forest Meteorology, 2007, 143, 189-207.	1.9	547
12	Observed increase in local cooling effect of deforestation at higher latitudes. Nature, 2011, 479, 384-387.	13.7	543
13	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 37-42.	3.3	496
14	Global estimates of evapotranspiration and gross primary production based on MODIS and global meteorology data. Remote Sensing of Environment, 2010, 114, 1416-1431.	4.6	475
15	Microbial soil respiration and its dependency on carbon inputs, soil temperature and moisture. Global Change Biology, 2007, 13, 2018-2035.	4.2	423
16	Elucidating secondary organic aerosol from diesel and gasoline vehicles through detailed characterization of organic carbon emissions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18318-18323.	3.3	409
17	Ecosystem carbon dioxide fluxes after disturbance in forests of North America. Journal of Geophysical Research, 2010, 115, .	3.3	395
18	A new model of gross primary productivity for North American ecosystems based solely on the enhanced vegetation index and land surface temperature from MODIS. Remote Sensing of Environment, 2008, 112, 1633-1646.	4.6	364

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19	Review of Urban Secondary Organic Aerosol Formation from Gasoline and Diesel Motor Vehicle Emissions. Environmental Science & Technology, 2017, 51, 1074-1093.	4.6	348
20	Contribution of First- versus Second-Generation Products to Secondary Organic Aerosols Formed in the Oxidation of Biogenic Hydrocarbons. Environmental Science & Technology, 2006, 40, 2283-2297.	4.6	341
21	Predicted change in global secondary organic aerosol concentrations in response to future climate, emissions, and land use change. Journal of Geophysical Research, 2008, 113, .	3.3	335
22	Gas-phase products and secondary aerosol yields from the photooxidation of 16 different terpenes. Journal of Geophysical Research, 2006, 111, .	3.3	332
23	Effects of climate variability on the carbon dioxide, water, and sensible heat fluxes above a ponderosa pine plantation in the Sierra Nevada (CA). Agricultural and Forest Meteorology, 2000, 101, 113-129.	1.9	286
24	Biogenic carbon and anthropogenic pollutants combine to form a cooling haze over the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8835-8840.	3.3	286
25	Sources and properties of Amazonian aerosol particles. Reviews of Geophysics, 2010, 48, .	9.0	283
26	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1516-1521.	3.3	269
27	On the use of MODIS EVI to assess gross primary productivity of North American ecosystems. Journal of Geophysical Research, 2006, 111, .	3.3	267
28	Evidence for NO _x Control over Nighttime SOA Formation. Science, 2012, 337, 1210-1212.	6.0	266
29	Hygroscopicity of secondary organic aerosols formed by oxidation of cycloalkenes, monoterpenes, sesquiterpenes, and related compounds. Atmospheric Chemistry and Physics, 2006, 6, 2367-2388.	1.9	263
30	Reduction in carbon uptake during turn of the century drought in western North America. Nature Geoscience, 2012, 5, 551-556.	5.4	263
31	Fluxes of oxygenated volatile organic compounds from a ponderosa pine plantation. Journal of Geophysical Research, 2001, 106, 3111-3123.	3.3	256
32	Global isoprene emissions estimated using MEGAN, ECMWF analyses and a detailed canopy environment model. Atmospheric Chemistry and Physics, 2008, 8, 1329-1341.	1.9	249
33	Gas-phase products and secondary aerosol yields from the ozonolysis of ten different terpenes. Journal of Geophysical Research, 2006, 111, .	3.3	237
34	Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9233-9257.	1.2	231
35	Observations of oxidation products above a forest imply biogenic emissions of very reactive compounds. Atmospheric Chemistry and Physics, 2005, 5, 67-75.	1.9	226
36	International Consortium for Atmospheric Research on Transport and Transformation (ICARTT): North America to Europe-Overview of the 2004 summer field study. Journal of Geophysical Research, 2006, 111, .	3.3	222

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37	An In-Situ Instrument for Speciated Organic Composition of Atmospheric Aerosols:Thermal DesorptionAerosolGC/MS-FID (TAG). Aerosol Science and Technology, 2006, 40, 627-638.	1.5	215
38	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). Atmospheric Chemistry and Physics, 2016, 16, 4785-4797.	1.9	213
39	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. Atmospheric Chemistry and Physics, 2012, 12, 8009-8020.	1.9	211
40	Active Atmosphere-Ecosystem Exchange of the Vast Majority of Detected Volatile Organic Compounds. Science, 2013, 341, 643-647.	6.0	211
41	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. Astrophysical Journal Letters, 2016, 826, L13.	3.0	210
42	What the towers don't see at night: nocturnal sap flow in trees and shrubs at two AmeriFlux sites in California. Tree Physiology, 2007, 27, 597-610.	1.4	204
43	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5830-5866.	1.2	199
44	Volatile Organic Compound Emissions from Humans Indoors. Environmental Science & Technology, 2016, 50, 12686-12694.	4.6	193
45	On the implications of aerosol liquid water and phase separation for organic aerosol mass. Atmospheric Chemistry and Physics, 2017, 17, 343-369.	1.9	189
46	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2038-2043.	3.3	186
47	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2015, 15, 11807-11833.	1.9	185
48	Comparison of Gasoline Direct-Injection (GDI) and Port Fuel Injection (PFI) Vehicle Emissions: Emission Certification Standards, Cold-Start, Secondary Organic Aerosol Formation Potential, and Potential Climate Impacts. Environmental Science & Technology, 2017, 51, 6542-6552.	4.6	184
49	Gas-phase chemistry dominates O3loss to a forest, implying a source of aerosols and hydroxyl radicals to the atmosphere. Geophysical Research Letters, 2003, 30, .	1.5	183
50	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. Physical Chemistry Chemical Physics, 2016, 18, 10241-10254.	1.3	179
51	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. Bulletin of the American Meteorological Society, 2009, 90, 1843-1864.	1.7	175
52	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC⁴RS) and ground-based (SOAS) observations in the Southeast US. Atmospheric Chemistry and Physics, 2016, 16, 5969-5991.	1.9	173
53	In-situ ambient quantification of monoterpenes, sesquiterpenes, and related oxygenated compounds during BEARPEX 2007: implications for gas- and particle-phase chemistry. Atmospheric Chemistry and Physics, 2009, 9, 5505-5518.	1.9	172
54	Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites. Water Resources Research, 2002, 38, 30-1-30-11.	1.7	169

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55	Atmospheric volatile organic compound measurements during the Pittsburgh Air Quality Study: Results, interpretation, and quantification of primary and secondary contributions. Journal of Geophysical Research, 2005, 110, .	3.3	168
56	Quantifying sources of methane using light alkanes in the Los Angeles basin, California. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4974-4990.	1.2	167
57	Simulation of semi-explicit mechanisms of SOA formation from glyoxal in aerosol in a 3-D model. Atmospheric Chemistry and Physics, 2014, 14, 6213-6239.	1.9	166
58	Increasing background ozone during spring on the west coast of North America. Geophysical Research Letters, 2003, 30, .	1.5	164
59	The weekend effect within and downwind of Sacramento â€“ Part 1: Observations of ozone, nitrogen oxides, and VOC reactivity. Atmospheric Chemistry and Physics, 2007, 7, 5327-5339.	1.9	161
60	Forest thinning and soil respiration in a ponderosa pine plantation in the Sierra Nevada. Tree Physiology, 2005, 25, 57-66.	1.4	160
61	Influence of future climate and emissions on regional air quality in California. Journal of Geophysical Research, 2006, 111, .	3.3	160
62	New constraints on terrestrial and oceanic sources of atmospheric methanol. Atmospheric Chemistry and Physics, 2008, 8, 6887-6905.	1.9	160
63	Evapotranspiration models compared on a Sierra Nevada forest ecosystem. Environmental Modelling and Software, 2005, 20, 783-796.	1.9	156
64	Atmospheric deposition of reactive nitrogen oxides and ozone in a temperate deciduous forest and a subarctic woodland: 1. Measurements and mechanisms. Journal of Geophysical Research, 1996, 101, 12639-12657.	3.3	154
65	Recent Discoveries and Future Challenges in Atmospheric Organic Chemistry. Environmental Science & Technology, 2016, 50, 2754-2764.	4.6	154
66	Comparative genomics of Mortierella elongata and its bacterial endosymbiont Mycoavidus cysteinexigens. Environmental Microbiology, 2017, 19, 2964-2983.	1.8	154
67	Forest thinning experiment confirms ozone deposition to forest canopy is dominated by reaction with biogenic VOCs. Geophysical Research Letters, 2004, 31, .	1.5	151
68	Phase and amplitude of ecosystem carbon release and uptake potentials as derived from FLUXNET measurements. Agricultural and Forest Meteorology, 2002, 113, 75-95.	1.9	145
69	Lubricating Oil Dominates Primary Organic Aerosol Emissions from Motor Vehicles. Environmental Science & Technology, 2014, 48, 3698-3706.	4.6	145
70	Submicron aerosol composition at Trinidad Head, California, during ITCT 2K2: Its relationship with gas phase volatile organic carbon and assessment of instrument performance. Journal of Geophysical Research, 2004, 109, .	3.3	144
71	Increasing ozone in marine boundary layer inflow at the west coasts of North America and Europe. Atmospheric Chemistry and Physics, 2009, 9, 1303-1323.	1.9	144
72	Overview of HOMEChem: House Observations of Microbial and Environmental Chemistry. Environmental Sciences: Processes and Impacts, 2019, 21, 1280-1300.	1.7	140

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73	Continuous measurements of soil respiration with and without roots in a ponderosa pine plantation in the Sierra Nevada Mountains. Agricultural and Forest Meteorology, 2005, 132, 212-227.	1.9	139
74	In situ measurements of C2-C10volatile organic compounds above a Sierra Nevada ponderosa pine plantation. Journal of Geophysical Research, 1999, 104, 21247-21262.	3.3	138
75	Partitioning forest carbon fluxes with overstory and understory eddy-covariance measurements: A synthesis based on FLUXNET data. Agricultural and Forest Meteorology, 2007, 144, 14-31.	1.9	138
76	Climate control of terrestrial carbon exchange across biomes and continents. Environmental Research Letters, 2010, 5, 034007.	2.2	137
77	Chemical Composition of Gas-Phase Organic Carbon Emissions from Motor Vehicles and Implications for Ozone Production. Environmental Science & Technology, 2013, 47, 11837-11848.	4.6	137
78	Characterization of secondary atmospheric photooxidation products: Evidence for biogenic and anthropogenic sources. Journal of Geophysical Research, 2003, 108, .	3.3	132
79	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. Nature Communications, 2019, 10, 1046.	5.8	131
80	The 2005 Study of Organic Aerosols at Riverside (SOAR-1): instrumental intercomparisons and fine particle composition. Atmospheric Chemistry and Physics, 2011, 11, 12387-12420.	1.9	129
81	Long-Term Trends in Motor Vehicle Emissions in U.S. Urban Areas. Environmental Science & Technology, 2013, 47, 10022-10031.	4.6	129
82	Biogenic versus anthropogenic sources of CO in the United States. Geophysical Research Letters, 2008, 35, .	1.5	128
83	Organosulfates as Tracers for Secondary Organic Aerosol (SOA) Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere. Environmental Science & Technology, 2012, 46, 9437-9446.	4.6	128
84	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. Bulletin of the American Meteorological Society, 2017, 98, 981-997.	1.7	128
85	Indoor Particulate Matter during HOMEChem: Concentrations, Size Distributions, and Exposures. Environmental Science & Technology, 2020, 54, 7107-7116.	4.6	127
86	Organic nitrate aerosol formation via NO₃ + biogenic volatile organic compounds in the southeastern United States. Atmospheric Chemistry and Physics, 2015, 15, 13377-13392.	1.9	124
87	Siloxanes Are the Most Abundant Volatile Organic Compound Emitted from Engineering Students in a Classroom. Environmental Science and Technology Letters, 2015, 2, 303-307.	3.9	124
88	Response of stomatal conductance to drought in ponderosa pine: implications for carbon and ozone uptake. Tree Physiology, 2001, 21, 337-344.	1.4	121
89	Evaluation of a photosynthesis-based biogenic isoprene emission scheme in JULES and simulation of isoprene emissions under present-day climate conditions. Atmospheric Chemistry and Physics, 2011, 11, 4371-4389.	1.9	121
90	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). Atmospheric Chemistry and Physics, 2014, 14, 12181-12194.	1.9	121

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91	Process-based modelling of biogenic monoterpene emissions combining production and release from storage. Atmospheric Chemistry and Physics, 2009, 9, 3409-3423.	1.9	120
92	Volatile Organic Compound Emissions from Dairy Cows and Their Waste as Measured by Proton-Transfer-Reaction Mass Spectrometry. Environmental Science & Technology, 2007, 41, 1310-1316.	4.6	119
93	Characterization of particulate matter emissions from on-road gasoline and diesel vehicles using a soot particle aerosol mass spectrometer. Atmospheric Chemistry and Physics, 2014, 14, 7585-7599.	1.9	115
94	Midday values of gross CO2 flux and light use efficiency during satellite overpasses can be used to directly estimate eight-day mean flux. Agricultural and Forest Meteorology, 2005, 131, 1-12.	1.9	114
95	Major components of atmospheric organic aerosol in southern California as determined by hourly measurements of source marker compounds. Atmospheric Chemistry and Physics, 2010, 10, 11577-11603.	1.9	114
96	Chemical evolution of the Sacramento urban plume: Transport and oxidation. Journal of Geophysical Research, 2002, 107, ACH 3-1-ACH 3-15.	3.3	113
97	Observational Insights into Aerosol Formation from Isoprene. Environmental Science & Technology, 2013, 47, 11403-11413.	4.6	113
98	Influences of recovery from clear-cut, climate variability, and thinning on the carbon balance of a young ponderosa pine plantation. Agricultural and Forest Meteorology, 2005, 130, 207-222.	1.9	112
99	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. New Phytologist, 2012, 194, 775-783.	3.5	111
100	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. Environmental Science & Technology, 2019, 53, 8682-8694.	4.6	111
101	Secondary organic aerosols formed from oxidation of biogenic volatile organic compounds in the Sierra Nevada Mountains of California. Journal of Geophysical Research, 2006, 111, .	3.3	109
102	Ecosystem respiration in a young ponderosa pine plantation in the Sierra Nevada Mountains, California. Tree Physiology, 2001, 21, 309-318.	1.4	107
103	A comparison of three approaches to modeling leaf gas exchange in annually drought-stressed ponderosa pine forests. Tree Physiology, 2004, 24, 529-541.	1.4	107
104	Temperature dependence of volatile organic compound evaporative emissions from motor vehicles. Journal of Geophysical Research, 2006, 111, .	3.3	107
105	Withinâ€plant isoprene oxidation confirmed by direct emissions of oxidation products methyl vinyl ketone and methacrolein. Global Change Biology, 2012, 18, 973-984.	4.2	107
106	Reducing secondary organic aerosol formation from gasoline vehicle exhaust. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6984-6989.	3.3	107
107	Closing the peroxy acetyl nitrate budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007. Atmospheric Chemistry and Physics, 2009, 9, 7623-7641.	1.9	105
108	Surface reservoirs dominate dynamic gas-surface partitioning of many indoor air constituents. Science Advances, 2020, 6, eaay8973.	4.7	105

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109	Atmospheric benzenoid emissions from plants rival those from fossil fuels. Scientific Reports, 2015, 5, 12064.	1.6	104
110	Long-Term Trends in California Mobile Source Emissions and Ambient Concentrations of Black Carbon and Organic Aerosol. Environmental Science & Technology, 2015, 49, 5178-5188.	4.6	103
111	Seasonal course of isoprene emissions from a midlatitude deciduous forest. Journal of Geophysical Research, 1998, 103, 31045-31056.	3.3	102
112	Isotopes of Volatile Organic Compounds:â€‰ An Emerging Approach for Studying Atmospheric Budgets and Chemistry. Chemical Reviews, 2003, 103, 5025-5048.	23.0	101
113	Improved Resolution of Hydrocarbon Structures and Constitutional Isomers in Complex Mixtures Using Gas Chromatography-Vacuum Ultraviolet-Mass Spectrometry. Analytical Chemistry, 2012, 84, 2335-2342.	3.2	101
114	Seasonal variations of nonmethane hydrocarbons in rural New England: Constraints on OH concentrations in northern midlatitudes. Journal of Geophysical Research, 1995, 100, 21023.	3.3	100
115	Regional budgets for nitrogen oxides from continental sources: Variations of rates for oxidation and deposition with season and distance from source regions. Journal of Geophysical Research, 1998, 103, 8355-8368.	3.3	100
116	Canopy and leaf level 2-methyl-3-buten-2-ol fluxes from a ponderosa pine plantation. Atmospheric Environment, 2000, 34, 3535-3544.	1.9	100
117	Carbon dioxide and water vapor exchange by young and old ponderosa pine ecosystems during a dry summer. Tree Physiology, 2001, 21, 299-308.	1.4	100
118	Diurnal and Seasonal Variability of Gasoline-Related Volatile Organic Compound Emissions in Riverside, California. Environmental Science & Technology, 2009, 43, 4247-4252.	4.6	100
119	Seasonality of photosynthetic parameters in a multi-specific and vertically complex forest ecosystem in the Sierra Nevada of California. Tree Physiology, 2006, 26, 729-741.	1.4	99
120	Regional variation of organic functional groups in aerosol particles on four U.S. east coast platforms during the International Consortium for Atmospheric Research on Transport and Transformation 2004 campaign. Journal of Geophysical Research, 2007, 112, .	3.3	98
121	Ozone fluxes in a Pinus ponderosa ecosystem are dominated by non-stomatal processes: Evidence from long-term continuous measurements. Agricultural and Forest Meteorology, 2010, 150, 420-431.	1.9	97
122	Online derivatization for hourly measurements of gas- and particle-phase semi-volatile oxygenated organic compounds by thermal desorption aerosol gas chromatography (SV-TAG). Atmospheric Measurement Techniques, 2014, 7, 4417-4429.	1.2	96
123	Tropospheric ozone reduces carbon assimilation in trees: estimates from analysis of continuous flux measurements. Global Change Biology, 2013, 19, 2427-2443.	4.2	95
124	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. Atmospheric Chemistry and Physics, 2008, 8, 2007-2025.	1.9	94
125	Latitudinal patterns of magnitude and interannual variability in net ecosystem exchange regulated by biological and environmental variables. Global Change Biology, 2009, 15, 2905-2920.	4.2	94
126	Chemical speciation of organic aerosol during the International Consortium for Atmospheric Research on Transport and Transformation 2004: Results from in situ measurements. Journal of Geophysical Research, 2007, 112, .	3.3	92

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127	Eddy covariance fluxes of acyl peroxy nitrates (PAN, PPN and MPAN) above a Ponderosa pine forest. Atmospheric Chemistry and Physics, 2009, 9, 615-634.	1.9	92
128	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley, California. Atmospheric Chemistry and Physics, 2014, 14, 3373-3395.	1.9	92
129	Chemical evolution of atmospheric organic carbon over multiple generations of oxidation. Nature Chemistry, 2018, 10, 462-468.	6.6	92
130	Are monoterpene emissions influenced by humidity?. Geophysical Research Letters, 1999, 26, 2187-2190.	1.5	91
131	Formation and occurrence of dimer esters of pinene oxidation products in atmospheric aerosols. Atmospheric Chemistry and Physics, 2013, 13, 3763-3776.	1.9	89
132	A comparison of new measurements of total monoterpene flux with improved measurements of speciated monoterpene flux. Atmospheric Chemistry and Physics, 2005, 5, 505-513.	1.9	87
133	Multiphase Chemistry Controls Inorganic Chlorinated and Nitrogenated Compounds in Indoor Air during Bleach Cleaning. Environmental Science & Technology, 2020, 54, 1730-1739.	4.6	87
134	Trace gas mixing ratio variability versus lifetime in the troposphere and stratosphere: Observations. Journal of Geophysical Research, 1999, 104, 16091-16113.	3.3	86
135	Changes in the photochemical environment of the temperate North Pacific troposphere in response to increased Asian emissions. Journal of Geophysical Research, 2004, 109, .	3.3	86
136	The Chemistry of Atmosphere-Forest Exchange (CAFE) Model â€“ Part 2: Application to BEARPEX-2007 observations. Atmospheric Chemistry and Physics, 2011, 11, 1269-1294.	1.9	85
137	Isoprene photochemistry over the Amazon rainforest. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6125-6130.	3.3	85
138	Observational constraints on the contribution of isoprene oxidation to ozone production on the western slope of the Sierra Nevada, California. Journal of Geophysical Research, 2002, 107, ACH 1-1.	3.3	84
139	Quantifying biogenic and anthropogenic contributions to acetone mixing ratios in a rural environment. Atmospheric Environment, 2000, 34, 4997-5006.	1.9	83
140	Impact of Asian emissions on observations at Trinidad Head, California, during ITCT 2K2. Journal of Geophysical Research, 2004, 109, .	3.3	83
141	Large emissions of sesquiterpenes and methyl chavicol quantified from branch enclosure measurements. Atmospheric Environment, 2009, 43, 389-401.	1.9	83
142	In situ measurements of gas/particle-phase transitions for atmospheric semivolatile organic compounds. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6676-6681.	3.3	82
143	Photosynthesis-dependent isoprene emission from leaf to planet in a global carbon-chemistry-climate model. Atmospheric Chemistry and Physics, 2013, 13, 10243-10269.	1.9	82
144	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). Atmospheric Chemistry and Physics, 2016, 16, 11563-11580.	1.9	82

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145	Canopy fluxes of 2-methyl-3-buten-2-ol over a ponderosa pine forest by relaxed eddy accumulation: Field data and model comparison. Journal of Geophysical Research, 1999, 104, 26107-26114.	3.3	81
146	Origins and composition of fine atmospheric carbonaceous aerosol in the Sierra Nevada Mountains, California. Atmospheric Chemistry and Physics, 2011, 11, 10219-10241.	1.9	81
147	Emission Factors of Microbial Volatile Organic Compounds from Environmental Bacteria and Fungi. Environmental Science & Technology, 2018, 52, 8272-8282.	4.6	81
148	Thermal desorption comprehensive two-dimensional gas chromatography for in-situ measurements of organic aerosols. Journal of Chromatography A, 2008, 1186, 340-347.	1.8	80
149	Speciated and total emission factors of particulate organics from burning western US wildland fuels and their dependence on combustion efficiency. Atmospheric Chemistry and Physics, 2019, 19, 1013-1026.	1.9	80
150	Indoor chemistry: research opportunities and challenges. Indoor Air, 2015, 25, 357-361.	2.0	79
151	Forest-atmosphere exchange of ozone: sensitivity to very reactive biogenic VOC emissions and implications for in-canopy photochemistry. Atmospheric Chemistry and Physics, 2011, 11, 7875-7891.	1.9	78
152	Development of an In Situ Thermal Desorption Gas Chromatography Instrument for Quantifying Atmospheric Semi-Volatile Organic Compounds. Aerosol Science and Technology, 2013, 47, 258-266.	1.5	78
153	Wildfire smoke impacts on indoor air quality assessed using crowdsourced data in California. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	78
154	Emissions of ethene, propene, and1-butene by a midlatitude forest. Journal of Geophysical Research, 1996, 101, 9149-9157.	3.3	77
155	Extracting and trapping biogenic volatile organic compounds stored in plant species. TrAC - Trends in Analytical Chemistry, 2011, 30, 978-989.	5.8	77
156	A relaxed eddy accumulation system for measuring vertical fluxes of nitrous acid. Atmospheric Measurement Techniques, 2011, 4, 2093-2103.	1.2	76
157	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO_{<i>x</i>}. Atmospheric Chemistry and Physics, 2015, 15, 11257-11272.	1.9	75
158	The lifetime of nitrogen oxides in an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 7623-7637.	1.9	75
159	Qualitative and quantitative analysis of atmospheric organosulfates in Centreville, Alabama. Atmospheric Chemistry and Physics, 2017, 17, 1343-1359.	1.9	75
160	Detailed Speciation of Intermediate Volatility and Semivolatile Organic Compound Emissions from Gasoline Vehicles: Effects of Cold-Starts and Implications for Secondary Organic Aerosol Formation. Environmental Science & Technology, 2019, 53, 1706-1714.	4.6	75
161	Ozone deposition to an orange orchard: Partitioning between stomatal andÂnon-stomatal sinks. Environmental Pollution, 2012, 169, 258-266.	3.7	74
162	Molecular Characterization of Organosulfur Compounds in Biodiesel and Diesel Fuel Secondary Organic Aerosol. Environmental Science & Technology, 2017, 51, 119-127.	4.6	74

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163	Seasonal measurements of acetone and methanol: Abundances and implications for atmospheric budgets. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	73
164	Seasonal variability of monoterpene emission factors for a ponderosa pine plantation in California. Atmospheric Chemistry and Physics, 2006, 6, 1267-1274.	1.9	73
165	Secondary organic aerosol formation from fossil fuel sources contribute majority of summertime organic mass at Bakersfield. Journal of Geophysical Research, 2012, 117, .	3.3	72
166	Seasonal variation of the ozone production efficiency per unit NOxat Harvard Forest, Massachusetts. Journal of Geophysical Research, 1996, 101, 12659-12666.	3.3	71
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