

# Alex B Guenther

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/614390/alex-b-guenther-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

455  
papers

38,063  
citations

94  
h-index

183  
g-index

543  
ext. papers

42,738  
ext. citations

6.5  
avg, IF

6.89  
L-index

#	Paper	IF	Citations
455	Estimates of global terrestrial isoprene emissions using MEGAN (Model of Emissions of Gases and Aerosols from Nature). <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 3181-3210	6.8	3065
454	A global model of natural volatile organic compound emissions. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 8873		3022
453	The Model of Emissions of Gases and Aerosols from Nature version 2.1 (MEGAN2.1): an extended and updated framework for modeling biogenic emissions. <i>Geoscientific Model Development</i> , <b>2012</b> , 5, 1471-1492	6.3	1751
452	Description and evaluation of the Model for Ozone and Related chemical Tracers, version 4 (MOZART-4). <i>Geoscientific Model Development</i> , <b>2010</b> , 3, 43-67	6.3	1258
451	Isoprene and monoterpene emission rate variability: Model evaluations and sensitivity analyses. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 12609		1143
450	Emissions of volatile organic compounds from vegetation and the implications for atmospheric chemistry. <i>Global Biogeochemical Cycles</i> , <b>1992</b> , 6, 389-430	5.9	656
449	Sulfur emissions to the atmosphere from natural sources. <i>Journal of Atmospheric Chemistry</i> , <b>1992</b> , 14, 315-337	3.2	625
448	Atmospheric composition change [g]lobal and regional air quality. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 5268-5350	5.3	592
447	Natural emissions of non-methane volatile organic compounds, carbon monoxide, and oxides of nitrogen from North America. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 2205-2230	5.3	524
446	Biogenic Hydrocarbons in the Atmospheric Boundary Layer: A Review. <i>Bulletin of the American Meteorological Society</i> , <b>2000</b> , 81, 1537-1575	6.1	462
445	Global data set of biogenic VOC emissions calculated by the MEGAN model over the last 30 years. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 9317-9341	6.8	425
444	Isoprene and monoterpene emission rate variability: Observations with eucalyptus and emission rate algorithm development. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 10799		424
443	Natural volatile organic compound emission rate estimates for U.S. woodland landscapes. <i>Atmospheric Environment</i> , <b>1994</b> , 28, 1197-1210	5.3	412
442	Critical assessment of the current state of scientific knowledge, terminology, and research needs concerning the role of organic aerosols in the atmosphere, climate, and global change. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 2017-2038	6.8	394
441	Inventorying emissions from nature in Europe. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 8113-8152		375
440	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. <i>Reviews of Geophysics</i> , <b>2017</b> , 55, 509-559	23.1	359
439	A national inventory of biogenic hydrocarbon emissions. <i>Atmospheric Environment</i> , <b>1987</b> , 21, 1695-1705		320

438	Improving our fundamental understanding of the role of aerosol-cloud interactions in the climate system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 5781-90	11.5	314
437	Predicted change in global secondary organic aerosol concentrations in response to future climate, emissions, and land use change. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		291
436	Biogenic emissions in Europe: 1. Estimates and uncertainties. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 22875		273
435	Production of extremely low volatile organic compounds from biogenic emissions: Measured yields and atmospheric implications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 7123-8	11.5	260
434	A review of the anthropogenic influence on biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 321-343	6.8	246
433	SEASONAL AND SPATIAL VARIATIONS IN NATURAL VOLATILE ORGANIC COMPOUND EMISSIONS <b>1997</b> , 7, 34-45		245
432	Sources and properties of Amazonian aerosol particles. <i>Reviews of Geophysics</i> , <b>2010</b> , 48,	23.1	237
431	Global atmospheric budget of acetaldehyde: 3-D model analysis and constraints from in-situ and satellite observations. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 3405-3425	6.8	234
430	Global budget of methanol: Constraints from atmospheric observations. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		230
429	A review and synthesis of monoterpene speciation from forests in the United States. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 1761-1781	5.3	217
428	Environmental and developmental controls over the seasonal pattern of isoprene emission from aspen leaves. <i>Oecologia</i> , <b>1994</b> , 99, 260-270	2.9	214
427	Global isoprene emissions estimated using MEGAN, ECMWF analyses and a detailed canopy environment model. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 1329-1341	6.8	213
426	An improved model for estimating emissions of volatile organic compounds from forests in the eastern United States. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 12773		210
425	Influence of increased isoprene emissions on regional ozone modeling. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 25611-25629		209
424	Quantifying the seasonal and interannual variability of North American isoprene emissions using satellite observations of the formaldehyde column. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		204
423	Spatial distribution of isoprene emissions from North America derived from formaldehyde column measurements by the OMI satellite sensor. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		196
422	Exchange processes of volatile organic compounds above a tropical rain forest: Implications for modeling tropospheric chemistry above dense vegetation. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		193
421	The tropical forest and fire emissions experiment: laboratory fire measurements and synthesis of campaign data. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 3509-3527	6.8	192

420	The Tropical Forest and Fire Emissions Experiment: overview and airborne fire emission factor measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 5175-5196	6.8	187
419	Sesquiterpene emissions from vegetation: a review. <i>Biogeosciences</i> , <b>2008</b> , 5, 761-777	4.6	185
418	Efficient atmospheric cleansing of oxidized organic trace gases by vegetation. <i>Science</i> , <b>2010</b> , 330, 816-9	33.3	183
417	Isoprene emission estimates and uncertainties for the central African EXPRESSO study domain. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 30625-30639		180
416	The tropical forest and fire emissions experiment: Emission, chemistry, and transport of biogenic volatile organic compounds in the lower atmosphere over Amazonia. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		176
415	Evaluating the performance of pyrogenic and biogenic emission inventories against one decade of space-based formaldehyde columns. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 1037-1060	6.8	167
414	Virtual disjunct eddy covariance measurements of organic compound fluxes from a subalpine forest using proton transfer reaction mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , <b>2002</b> , 2, 279-291	6.8	165
413	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4785-4797	6.8	162
412	Atmospheric methanol budget and ocean implication. <i>Global Biogeochemical Cycles</i> , <b>2002</b> , 16, 80-1-80-13	9	160
411	Emission of 2-methyl-3-buten-2-ol by pines: A potentially large natural source of reactive carbon to the atmosphere. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 25479-25486		160
410	Effects of light, temperature and canopy position on net photosynthesis and isoprene emission from sweetgum ( <i>Liquidambar styraciflua</i> ) leaves. <i>Tree Physiology</i> , <b>1996</b> , 16, 25-32	4.2	160
409	An inventory of nitric oxide emissions from soils in the United States. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 7511		159
408	Monoterpene and sesquiterpene emission estimates for the United States. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 1623-9	10.3	156
407	Plant Production and Emission of Volatile Organic Compounds. <i>BioScience</i> , <b>1997</b> , 47, 373-383	5.7	154
406	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. <i>Bulletin of the American Meteorological Society</i> , <b>2009</b> , 90, 1843-1864	6.1	153
405	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	153
404	The Tropical Forest and Fire Emissions Experiment: method evaluation of volatile organic compound emissions measured by PTR-MS, FTIR, and GC from tropical biomass burning. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 5883-5897	6.8	153
403	Atmospheric volatile organic compounds (VOC) at a remote tropical forest site in central Amazonia. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 4063-4072	5.3	144

402	Global terrestrial isoprene emission models: sensitivity to variability in climate and vegetation. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8037-8052	6.8	143
401	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 11415-11438	6.8	143
400	Response of isoprene emission to ambient CO <sub>2</sub> changes and implications for global budgets. <i>Global Change Biology</i> , <b>2009</b> , 15, 1127-1140	11.4	138
399	Ozone photochemical production in urban Shanghai, China: Analysis based on ground level observations. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		135
398	The contribution of reactive carbon emissions from vegetation to the carbon balance of terrestrial ecosystems. <i>Chemosphere</i> , <b>2002</b> , 49, 837-44	8.4	133
397	Contribution of isoprene to chemical budgets: A model tracer study with the NCAR CTM MOZART-4. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		128
396	Sesquiterpene emissions from pine trees—identifications, emission rates and flux estimates for the contiguous United States. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 1545-53	10.3	128
395	Rapid formation of isoprene photo-oxidation products observed in Amazonia. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 7753-7767	6.8	127
394	Isoprene fluxes measured by enclosure, relaxed eddy accumulation, surface layer gradient, mixed layer gradient, and mixed layer mass balance techniques. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 18555-18567		126
393	Global emissions of non-methane hydrocarbons deduced from SCIAMACHY formaldehyde columns through 2003–2006. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 3663-3679	6.8	124
392	Estimations of isoprenoid emission capacity from enclosure studies: measurements, data processing, quality and standardized measurement protocols. <i>Biogeosciences</i> , <b>2011</b> , 8, 2209-2246	4.6	123
391	Biogenic volatile organic compound emissions (BVOCs). I. Identifications from three continental sites in the U.S. <i>Chemosphere</i> , <b>1999</b> , 38, 2163-87	8.4	122
390	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 169-199	6.8	120
389	Emissions and ambient distributions of Biogenic Volatile Organic Compounds (BVOC) in a ponderosa pine ecosystem: interpretation of PTR-MS mass spectra. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 1759-1771	6.8	117
388	Seasonal variation of biogenic VOC emissions above a mixed hardwood forest in northern Michigan. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	116
387	Estimates of regional natural volatile organic compound fluxes from enclosure and ambient measurements. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 1345-1359		116
386	Seasonal temperature variations influence isoprene emission. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1707-1710	4.9	113
385	Effect of drought on isoprene emission rates from leaves of <i>Quercus virginiana</i> Mill.. <i>Atmospheric Environment</i> , <b>2004</b> , 38, 6149-6156	5.3	112

384	A new European plant-specific emission inventory of biogenic volatile organic compounds for use in atmospheric transport models. <i>Biogeosciences</i> , <b>2009</b> , 6, 1059-1087	4.6	111
383	Sesquiterpene emissions from loblolly pine and their potential contribution to biogenic aerosol formation in the Southeastern US. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 4150-4157	5.3	111
382	Environmental controls over isoprene emission in deciduous oak canopies. <i>Tree Physiology</i> , <b>1997</b> , 17, 705-14	4.2	110
381	Temporal variability in basal isoprene emission factor. <i>Tree Physiology</i> , <b>2000</b> , 20, 799-805	4.2	110
380	Organosulfates as tracers for secondary organic aerosol (SOA) formation from 2-methyl-3-buten-2-ol (MBO) in the atmosphere. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 9437-46	10.3	109
379	Megacity impacts on regional ozone formation: observations and WRF-Chem modeling for the MIRAGE-Shanghai field campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 5655-5669	6.8	109
378	Model sensitivity evaluation for organic carbon using two multi-pollutant air quality models that simulate regional haze in the southeastern United States. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 4960-4972	5.3	109
377	Assessment of volatile organic compound emissions from ecosystems of China. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACH 16-1-ACH 16-21		105
376	Eddy covariance measurements of oxygenated volatile organic compound fluxes from crop harvesting using a redesigned proton-transfer-reaction mass spectrometer. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 24157-24167		105
375	Tethered balloon measurements of biogenic VOCs in the atmospheric boundary layer. <i>Atmospheric Environment</i> , <b>1999</b> , 33, 855-867	5.3	104
374	First space-based derivation of the global atmospheric methanol emission fluxes. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 4873-4898	6.8	103
373	Estimates of global terrestrial isoprene emissions using MEGAN (Model of Emissions of Gases and Aerosols from Nature)		103
372	Seasonal and interannual variability of North American isoprene emissions as determined by formaldehyde column measurements from space. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	100
371	The bi-directional exchange of oxygenated VOCs between a loblolly pine (&lt;l&gt;Pinus taeda&lt;/l&gt;) plantation and the atmosphere. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 3015-3031	6.8	100
370	Eddy covariance measurement of biogenic oxygenated VOC emissions from hay harvesting. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 491-495	5.3	100
369	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 12181-12194	6.8	99
368	Measurement of atmospheric sesquiterpenes by proton transfer reaction-mass spectrometry (PTR-MS). <i>Atmospheric Measurement Techniques</i> , <b>2009</b> , 2, 99-112	4	99
367	Role of canopy-scale photochemistry in modifying biogenic-atmosphere exchange of reactive terpene species: Results from the CELTIC field study. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		98

366	Development of atmospheric tracer methods to measure methane emissions from natural gas facilities and urban areas. <i>Environmental Science &amp; Technology</i> , <b>1995</b> , 29, 1468-79	10.3	98
365	Rapid cycling of reactive nitrogen in the marine boundary layer. <i>Nature</i> , <b>2016</b> , 532, 489-91	50.4	98
364	Eddy covariance measurement of isoprene fluxes. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 13145-13152		97
363	Methane emissions from upland forest soils and vegetation. <i>Tree Physiology</i> , <b>2008</b> , 28, 491-8	4.2	96
362	Future Changes in Biogenic Isoprene Emissions: How Might They Affect Regional and Global Atmospheric Chemistry?. <i>Earth Interactions</i> , <b>2006</b> , 10, 1-19	1.5	95
361	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 981-997	6.1	94
360	An Eddy-Covariance System for the Measurement of Surface/Atmosphere Exchange Fluxes of Submicron Aerosol Chemical Species: First Application Above an Urban Area. <i>Aerosol Science and Technology</i> , <b>2008</b> , 42, 636-657	3.4	94
359	Eddy covariance fluxes of peroxyacetyl nitrates (PANs) and NO <sub>y</sub> to a coniferous forest. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		94
358	Carbon trace gas fluxes along a successional gradient in the Hudson Bay lowland. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 1469		94
357	Leaf, branch, stand and landscape scale measurements of volatile organic compound fluxes from U.S. woodlands. <i>Tree Physiology</i> , <b>1996</b> , 16, 17-24	4.2	93
356	Biogenic methanol and its impacts on tropospheric oxidants. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a		90
355	Disjunct eddy covariance measurements of oxygenated volatile organic compounds fluxes from an alfalfa field before and after cutting. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACH 6-1		90
354	Impacts of weather conditions modified by urban expansion on surface ozone: Comparison between the Pearl River Delta and Yangtze River Delta regions. <i>Advances in Atmospheric Sciences</i> , <b>2009</b> , 26, 962-972	2.9	89
353	The Canopy Horizontal Array Turbulence Study. <i>Bulletin of the American Meteorological Society</i> , <b>2011</b> , 92, 593-611	6.1	87
352	Light dependency of VOC emissions from selected Mediterranean plant species. <i>Atmospheric Environment</i> , <b>2002</b> , 36, 3147-3159	5.3	87
351	Isoprene emission capacity for US tree species. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 3341-3352	5.3	87
350	Isoprene emissions over Asia 1979-2012: impact of climate and land-use changes. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 4587-4605	6.8	86
349	First direct measurements of formaldehyde flux via eddy covariance: implications for missing in-canopy formaldehyde sources. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10565-10578	6.8	85

348	Biogenic volatile organic compound emissions from a lowland tropical wet forest in Costa Rica. <i>Atmospheric Environment</i> , <b>2002</b> , 36, 3793-3802	5.3	85
347	A high-resolution emission inventory for eastern China in 2000 and three scenarios for 2020. <i>Atmospheric Environment</i> , <b>2005</b> , 39, 5917-5933	5.3	85
346	Net ecosystem fluxes of isoprene over tropical South America inferred from Global Ozone Monitoring Experiment (GOME) observations of HCHO columns. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		84
345	Biogenic hydrocarbon emissions from southern African savannas. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 25859-25865		84
344	Towards a quantitative understanding of total OH reactivity: A review. <i>Atmospheric Environment</i> , <b>2016</b> , 134, 147-161	5.3	83
343	Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		83
342	Simulating biogenic volatile organic compound emissions in the Community Climate System Model. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		83
341	Measurement of biogenic sulfur emissions from soils and vegetation: Application of dynamic enclosure methods with Natusch filter and GC/FPD analysis. <i>Journal of Atmospheric Chemistry</i> , <b>1987</b> , 5, 469-491	3.2	81
340	Variation in potential for isoprene emissions among Neotropical forest sites. <i>Global Change Biology</i> , <b>2004</b> , 10, 630-650	11.4	80
339	Atmospheric benzenoid emissions from plants rival those from fossil fuels. <i>Scientific Reports</i> , <b>2015</b> , 5, 12064	4.9	79
338	Disjunct eddy covariance technique for trace gas flux measurements. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 3139-3142	4.9	79
337	Nine years of global hydrocarbon emissions based on source inversion of OMI formaldehyde observations. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 10133-10158	6.8	77
336	Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 3687-3701	6.8	77
335	Chemical sensing of plant stress at the ecosystem scale. <i>Biogeosciences</i> , <b>2008</b> , 5, 1287-1294	4.6	77
334	Volatile organic compounds from vegetation in southern Yunnan Province, China: Emission rates and some potential regional implications. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 1759-1773	5.3	77
333	Cloud Activating Properties of Aerosol Observed during CELTIC. <i>Journals of the Atmospheric Sciences</i> , <b>2007</b> , 64, 441-459	2.1	77
332	Comparison of different real time VOC measurement techniques in a ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 2893-2906	6.8	74
331	Approaches for quantifying reactive and low-volatility biogenic organic compound emissions by vegetation enclosure techniques - part B: applications. <i>Chemosphere</i> , <b>2008</b> , 72, 365-80	8.4	74



330	Patterns in volatile organic compound emissions along a savanna-rainforest gradient in central Africa. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 1443-1454		74
329	Effect of isoprene emissions from major forests on ozone formation in the city of Shanghai, China. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10449-10459	6.8	73
328	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. <i>Nature Communications</i> , <b>2019</b> , 10, 1046	17.4	72
327	Environmental controls over methanol emission from leaves. <i>Biogeosciences</i> , <b>2007</b> , 4, 1083-1099	4.6	72
326	Attribution of projected changes in summertime US ozone and PM <sub>2.5</sub> concentrations to global changes. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 1111-1124	6.8	71
325	Top-down isoprene emissions over tropical South America inferred from SCIAMACHY and OMI formaldehyde columns. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 6849-6868	4.4	69
324	Contributions of primary and secondary biogenic VOC to total OH reactivity during the CABINEX (Community Atmosphere-Biosphere INTERactions Experiments)-09 field campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8613-8623	6.8	69
323	SOSA: a new model to simulate the concentrations of organic vapours and sulphuric acid inside the ABL [Part 1: Model description and initial evaluation. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 43-51	6.8	69
322	New particle formation in the Front Range of the Colorado Rocky Mountains. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 1577-1590	6.8	69
321	Canopy fluxes of 2-methyl-3-buten-2-ol over a ponderosa pine forest by relaxed eddy accumulation: Field data and model comparison. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 26107-26114		69
320	Measurement and analysis of atmospheric concentrations of isoprene and its reaction products in central Texas. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 1001-1013	5.3	68
319	Volatile organic compound emissions from <i>Larrea tridentata</i> (creosotebush). <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 12191-12206	6.8	66
318	A biogenic volatile organic compound emission inventory for Hong Kong. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 6442-6448	5.3	65
317	Biogenic VOC emissions from forested Amazonian landscapes. <i>Global Change Biology</i> , <b>2004</b> , 10, 651-662	11.4	65
316	Modelling changes in VOC emission in response to climate change in the continental United States. <i>Global Change Biology</i> , <b>1999</b> , 5, 791-806	11.4	65
315	Photosynthesis-dependent isoprene emission from leaf to planet in a global carbon-chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 10243-10269	6.8	64
314	Isoprene suppression of new particle formation in a mixed deciduous forest. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6013-6027	6.8	64
313	In-canopy gas-phase chemistry during CABINEX 2009: sensitivity of a 1-D canopy model to vertical mixing and isoprene chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 8829-8849	6.8	64

312	Isoprene photochemistry over the Amazon rainforest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 6125-30	11.5	63
311	Contribution of leaf and needle litter to whole ecosystem BVOC fluxes. <i>Atmospheric Environment</i> , <b>2012</b> , 59, 302-311	5.3	62
310	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO <sub>x</sub> . <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 11257-11272	6.8	62
309	The impacts of reactive terpene emissions from plants on air quality in Las Vegas, Nevada. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 4109-4123	5.3	62
308	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 11563-11580	6.8	60
307	Biogenic volatile organic compound emissions from desert vegetation of the southwestern US. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 1645-1660	5.3	60
306	Volatile organic compounds and isoprene oxidation products at a temperate deciduous forest site. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 22397-22414		60
305	Ecosystem-scale volatile organic compound fluxes during an extreme drought in a broadleaf temperate forest of the Missouri Ozarks (central USA). <i>Global Change Biology</i> , <b>2015</b> , 21, 3657-74	11.4	59
304	Emissions of putative isoprene oxidation products from mango branches under abiotic stress. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 3697-708	7	59
303	Secondary organic aerosol from sesquiterpene and monoterpene emissions in the United States. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 8784-90	10.3	59
302	Volatile organic emissions from the distillation and pyrolysis of vegetation. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 81-91	6.8	59
301	Observations of glyoxal and formaldehyde as metrics for the anthropogenic impact on rural photochemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 9529-9543	6.8	58
300	Direct measurement of particle formation and growth from the oxidation of biogenic emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 4403-4413	6.8	58
299	Biogenic volatile organic compound emissions (BVOCs). II. Landscape flux potentials from three continental sites in the U.S. <i>Chemosphere</i> , <b>1999</b> , 38, 2189-204	8.4	58
298	Impacts of seasonal and regional variability in biogenic VOC emissions on surface ozone in the Pearl River delta region, China. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 11803-11817	6.8	57
297	Modelling atmospheric OH-reactivity in a boreal forest ecosystem. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 9709-9719	6.8	57
296	Flux estimates and OH reaction potential of reactive biogenic volatile organic compounds (BVOCs) from a mixed northern hardwood forest. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 5479-5495	5.3	57
295	Active Turbulence and Scalar Transport near the Forest-Atmosphere Interface. <i>Journal of Applied Meteorology and Climatology</i> , <b>1998</b> , 37, 1533-1546		57

294	Canopy level fluxes of 2-methyl-3-buten-2-ol, acetone, and methanol by a portable relaxed eddy accumulation system. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 1701-8	10.3	56
293	Air quality diagnosis from comprehensive observations of total OH reactivity and reactive trace species in urban central Tokyo. <i>Atmospheric Environment</i> , <b>2012</b> , 49, 51-59	5.3	55
292	Biogenic hydrocarbon emissions and landcover/climate change in a subtropical savanna. <i>Physics and Chemistry of the Earth</i> , <b>1999</b> , 24, 659-667		55
291	The primary and recycling sources of OH during the NACHTT-2011 campaign: HONO as an important OH primary source in the wintertime. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6886-6896	4.4	53
290	How consistent are top-down hydrocarbon emissions based on formaldehyde observations from GOME-2 and OMI?. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 11861-11884	6.8	53
289	Evaluating the calculated dry deposition velocities of reactive nitrogen oxides and ozone from two community models over a temperate deciduous forest. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 2663-2674	5.3	53
288	Biogenic emissions of isoprenoids and NO in China and comparison to anthropogenic emissions. <i>Science of the Total Environment</i> , <b>2006</b> , 371, 238-51	10.2	53
287	BVOC-aerosol-climate interactions in the global aerosol-climate model ECHAM5.5-HAM2. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 10077-10096	6.8	52
286	Large estragole fluxes from oil palms in Borneo. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 4343-4358	6.8	52
285	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 6345-6367	6.8	51
284	Ozarks Isoprene Experiment (OZIE): Measurements and modeling of the isoprene volcano. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		51
283	Experiment for Regional Sources and Sinks of Oxidants (EXPRESSO): An overview. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 30609-30624		51
282	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, 547-567	6.1	50
281	Comprehensive characterization of atmospheric organic carbon at a forested site. <i>Nature Geoscience</i> , <b>2017</b> , 10, 748-753	18.3	49
280	Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 467-493	6.8	49
279	Dimethyl sulfide in the Amazon rain forest. <i>Global Biogeochemical Cycles</i> , <b>2015</b> , 29, 19-32	5.9	49
278	Development of a regional-scale pollen emission and transport modeling framework for investigating the impact of climate change on allergic airway disease. <i>Biogeosciences</i> , <b>2014</b> , 11, 1461-1478	4.6	49
277	Evaluation of HO <sub>2</sub> sources and cycling using measurement-constrained model calculations in a 2-methyl-3-butene-2-ol (MBO) and monoterpene (MT) dominated ecosystem. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 2031-2044	6.8	49

276	Ground-level ozone influenced by circadian control of isoprene emissions. <i>Nature Geoscience</i> , <b>2011</b> , 4, 671-674	18.3	49
275	Model evidence for a significant source of secondary organic aerosol from isoprene. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 1267-1274	5.3	49
274	Global Organic Emissions from Vegetation. <i>Advances in Global Change Research</i> , <b>2004</b> , 115-170	1.2	49
273	Regulated large-scale annual shutdown of Amazonian isoprene emissions?. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	48
272	The effects of global changes upon regional ozone pollution in the United States. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 1125-1141	6.8	48
271	Observational constraints on the global atmospheric budget of ethanol. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5361-5370	6.8	48
270	Biogenic isoprene emission: Model evaluation in a southeastern United States bottomland deciduous forest. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 18889-18901		48
269	Evaluation of forest canopy models for estimating isoprene emissions. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 22787-22797		48
268	Dry Deposition of Ozone over Land: Processes, Measurement, and Modeling. <i>Reviews of Geophysics</i> , <b>2020</b> , 58, e2019RG000670	23.1	47
267	Observed and modeled ecosystem isoprene fluxes from an oak-dominated temperate forest and the influence of drought stress. <i>Atmospheric Environment</i> , <b>2014</b> , 84, 314-322	5.3	47
266	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2011</b> , 63, 241-254	3.3	47
265	Wet and dry season ecosystem level fluxes of isoprene and monoterpenes from a southeast Asian secondary forest and rubber tree plantation. <i>Atmospheric Environment</i> , <b>2005</b> , 39, 381-390	5.3	47
264	Seasonal and spatial variations in biogenic hydrocarbon emissions from southern African savannas and woodlands. <i>Atmospheric Environment</i> , <b>2002</b> , 36, 4265-4275	5.3	46
263	Eddy flux and leaf-level measurements of biogenic VOC emissions from mopane woodland of Botswana. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		46
262	Overview of the field measurement campaign in HyytiÄäugust 2001 in the framework of the EU project OSOA. <i>Atmospheric Chemistry and Physics</i> , <b>2004</b> , 4, 657-678	6.8	46
261	Biogenic volatile organic compound emissions in central Africa during the Experiment for the Regional Sources and Sinks of Oxidants (EXPRESSO) biomass burning season. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 30659-30671		46
260	Plant physiological and environmental controls over the exchange of acetaldehyde between forest canopies and the atmosphere. <i>Biogeosciences</i> , <b>2008</b> , 5, 1559-1572	4.6	45
259	Spatial and temporal variations in biogenic volatile organic compound emissions for Africa south of the equator. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		45

258	Missing peroxy radical sources within a summertime ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 4715-4732	6.8	44
257	Global emissions of terpenoid VOCs from terrestrial vegetation in the last millennium. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6867-6885	4.4	44
256	Biological and Chemical Diversity of Biogenic Volatile Organic Emissions into the Atmosphere <b>2013</b> , 2013, 1-27		43
255	Can a state-of-the-art chemistry transport model simulate Amazonian tropospheric chemistry?. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		43
254	Undisturbed and disturbed above canopy ponderosa pine emissions: PTR-TOF-MS measurements and MEGAN 2.1 model results. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 11935-11947	6.8	42
253	Future land use and land cover influences on regional biogenic emissions and air quality in the United States. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 5771-5780	5.3	42
252	Variability-lifetime relationship of VOCs observed at the Sonnblick Observatory 1999 Estimation of HO-densities. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 5287-5300	5.3	42
251	Testing Atmospheric Oxidation in an Alabama Forest. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 4699-4710	2.1	42
250	Improved model of isoprene emissions in Africa using Ozone Monitoring Instrument (OMI) satellite observations of formaldehyde: implications for oxidants and particulate matter. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 7693-7703	6.8	41
249	Tethered balloon measurements of biogenic volatile organic compounds at a Boreal forest site. <i>Atmospheric Chemistry and Physics</i> , <b>2004</b> , 4, 215-229	6.8	41
248	Impacts of biogenic and anthropogenic emissions on summertime ozone formation in the Guanzhong Basin, China. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 7489-7507	6.8	41
247	Ambient aromatic hydrocarbon measurements at Welgegund, South Africa. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 7075-7089	6.8	40
246	A land use database and examples of biogenic isoprene emission estimates for the state of Texas, USA. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 6465-6477	5.3	40
245	Isoprene oxidation products are a significant atmospheric aerosol component		40
244	Source characteristics of oxygenated volatile organic compounds and hydrogen cyanide. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		39
243	Airborne observations reveal elevational gradient in tropical forest isoprene emissions. <i>Nature Communications</i> , <b>2017</b> , 8, 15541	17.4	38
242	Secondary Organic Aerosol Formation via 2-Methyl-3-buten-2-ol Photooxidation: Evidence of Acid-Catalyzed Reactive Uptake of Epoxides. <i>Environmental Science and Technology Letters</i> , <b>2014</b> , 1, 242-247	11.1	38
241	Quantifying sources and sinks of reactive gases in the lower atmosphere using airborne flux observations. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 8231-8240	4.9	38

240	Airborne Flux Measurements of BVOCs above Californian Oak Forests: Experimental Investigation of Surface and Entrainment Fluxes, OH Densities, and Damköhler Numbers. <i>Journals of the Atmospheric Sciences</i> , <b>2013</b> , 70, 3277-3287	2.1	38
239	An estimate of natural volatile organic compound emissions from vegetation since the last glacial maximum. <i>Chemosphere</i> , <b>2001</b> , 3, 73-91		38
238	Molecular composition of organic aerosols in central Amazonia: an ultra-high-resolution mass spectrometry study. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 11899-11913	6.8	37
237	Current estimates of biogenic emissions from eucalypts uncertain for southeast Australia. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 6997-7011	6.8	37
236	Airborne flux measurements of methane and volatile organic compounds over the Haynesville and Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 6271-6289	4.4	37
235	Impact of isoprene and HONO chemistry on ozone and OVOC formation in a semirural South Korean forest. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 4357-4371	6.8	37
234	Isoprene and monoterpene emissions from an Inner Mongolia grassland. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 5753-5758	5.3	37
233	Methyl bromide deposition to soils. <i>Atmospheric Environment</i> , <b>1998</b> , 32, 1581-1586	5.3	36
232	Controls over ozone deposition to a high elevation subalpine forest. <i>Agricultural and Forest Meteorology</i> , <b>2009</b> , 149, 1447-1459	5.8	35
231	Micrometeorological and leaf-level measurements of isoprene emissions from a southern African savanna. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		35
230	Modeling Biogenic Volatile Organic Compound Emissions to the Atmosphere <b>1999</b> , 97-118		35
229	Seasonality of isoprenoid emissions from a primary rainforest in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 3903-3925	6.8	34
228	Total OH reactivity measurements in ambient air in a southern Rocky mountain ponderosa pine forest during BEACHON-SRM08 summer campaign. <i>Atmospheric Environment</i> , <b>2014</b> , 85, 1-8	5.3	34
227	Biogenic volatile organic compounds from an invasive species: impacts on plant-plant interactions. <i>Plant Ecology</i> , <b>2009</b> , 203, 195-205	1.7	34
226	EXPRESSO flux measurements at upland and lowland Congo tropical forest site. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2001</b> , 53, 220-234	3.3	34
225	A true eddy accumulation system for trace gas fluxes using disjunct eddy sampling method. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 24791-24798		34
224	Terpene Composition Complexity Controls Secondary Organic Aerosol Yields from Scots Pine Volatile Emissions. <i>Scientific Reports</i> , <b>2018</b> , 8, 3053	4.9	33
223	Isoprene Emission Response to Drought and the Impact on Global Atmospheric Chemistry. <i>Atmospheric Environment</i> , <b>2018</b> , 183, 69-83	5.3	33

222	Observations and models of emissions of volatile terpenoid compounds from needles of ponderosa pine trees growing in situ: control by light, temperature and stomatal conductance. <i>Oecologia</i> , <b>2014</b> , 176, 35-55	2.9	33
221	Observations of diurnal to weekly variations of monoterpene-dominated fluxes of volatile organic compounds from mediterranean forests: implications for regional modeling. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11073-82	10.3	33
220	Seasonal trends of biogenic terpene emissions. <i>Chemosphere</i> , <b>2013</b> , 93, 35-46	8.4	32
219	Dry nitrogen deposition estimates over a forest experiencing free air CO2 enrichment. <i>Global Change Biology</i> , <b>2008</b> , 14, 768-781	11.4	32
218	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2615-2651	6.8	31
217	Airborne flux measurements of biogenic isoprene over California. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10631-10647	6.8	31
216	Contribution of flowering trees to urban atmospheric biogenic volatile organic compound emissions. <i>Biogeosciences</i> , <b>2012</b> , 9, 3777-3785	4.6	31
215	The Model of Emissions of Gases and Aerosols from Nature version 2.1 (MEGAN2.1): an extended and updated framework for modeling biogenic emissions <b>2012</b> ,		31
214	Shifts in plant foliar and floral metabolomes in response to the suppression of the associated microbiota. <i>BMC Plant Biology</i> , <b>2016</b> , 16, 78	5.3	31
213	Improved land cover and emission factors for modeling biogenic volatile organic compounds emissions from Hong Kong. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 1456-1468	5.3	30
212	Gas-aerosol partitioning of semi volatile carbonyls in polluted atmosphere in Hachioji, Tokyo. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	30
211	Monoterpene emissions from a Pacific Northwest Old-Growth Forest and impact on regional biogenic VOC emission estimates. <i>Atmospheric Environment</i> , <b>2004</b> , 38, 3089-3098	5.3	29
210	Seasonal and interannual variations in whole-ecosystem BVOC emissions from a subtropical plantation in China. <i>Atmospheric Environment</i> , <b>2017</b> , 161, 176-190	5.3	28
209	New Particle Formation and Growth in an Isoprene-Dominated Ozark Forest: From Sub-5 nm to CCN-Active Sizes. <i>Aerosol Science and Technology</i> , <b>2014</b> , 48, 1285-1298	3.4	28
208	The use of disjunct eddy sampling methods for the determination of ecosystem level fluxes of trace gases. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 981-994	6.8	28
207	Contrasting organic aerosol particles from boreal and tropical forests during HUMPPA-COPEC-2010 and AMAZE-08 using coherent vibrational spectroscopy. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10317-10329	6.8	27
206	Relevance of ion-induced nucleation of sulfuric acid and water in the lower troposphere over the boreal forest at northern latitudes. <i>Atmospheric Research</i> , <b>2008</b> , 90, 151-158	5.4	27
205	Direct retrieval of isoprene from satellite-based infrared measurements. <i>Nature Communications</i> , <b>2019</b> , 10, 3811	17.4	26

204	BioEarth: Envisioning and developing a new regional earth system model to inform natural and agricultural resource management. <i>Climatic Change</i> , <b>2015</b> , 129, 555-571	4.5	26
203	Impact of biogenic volatile organic compounds on ozone production at the Taehwa Research Forest near Seoul, South Korea. <i>Atmospheric Environment</i> , <b>2013</b> , 70, 447-453	5.3	26
202	Assessing sources of uncertainty in formaldehyde air mass factors over tropical South America: Implications for top-down isoprene emission estimates. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		26
201	Carbon isotope analysis of acetaldehyde emitted from leaves following mechanical stress and anoxia. <i>Plant Biology</i> , <b>2009</b> , 11, 591-7	3.7	26
200	Corrigendum to "Estimates of global terrestrial isoprene emissions using MEGAN (Model of Emissions of Gases and Aerosols from Nature)" published in <i>Atmos. Chem. Phys.</i> , 6, 3181-3210, 2006. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 4327-4327	6.8	26
199	Isoprene suppression of new particle formation: Potential mechanisms and implications. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 14,621	4.4	26
198	Regional to Global Biogenic Isoprene Emission Responses to Changes in Vegetation From 2000 to 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 3757-3771	4.4	25
197	An evaluation of ozone dry deposition simulations in East Asia. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 7929-7940	6.8	25
196	An ecosystem-scale perspective of the net land methanol flux: synthesis of micrometeorological flux measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 2577-2613	6.8	25
195	Chemistry-turbulence interactions and mesoscale variability influence the cleansing efficiency of the atmosphere. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 10,894	4.9	25
194	The effects of global change upon United States air quality. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 12645-12665	6.8	25
193	Evaluation and improvements of two community models in simulating dry deposition velocities for peroxyacetyl nitrate (PAN) over a coniferous forest. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		25
192	Estimating urban vegetation cover fraction using Google Earth™ images. <i>Journal of Land Use Science</i> , <b>2012</b> , 7, 311-329	2.7	25
191	Photosynthesis, stomatal conductance and terpene emission response to water availability in dry and mesic Mediterranean forests. <i>Trees - Structure and Function</i> , <b>2016</b> , 30, 749-759	2.6	24
190	Topsoil depth substantially influences the responses to drought of the foliar metabolomes of Mediterranean forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2016</b> , 21, 41-54	3	24
189	Seasonal and interannual variations in whole-ecosystem isoprene and monoterpene emissions from a temperate mixed forest in Northern China. <i>Atmospheric Pollution Research</i> , <b>2015</b> , 6, 696-707	4.5	23
188	Comparing three vegetation monoterpene emission models to measured gas concentrations with a model of meteorology, air chemistry and chemical transport. <i>Biogeosciences</i> , <b>2014</b> , 11, 5425-5443	4.6	23
187	Marine Organic Halide and Isoprene Emissions Near Mace Head, Ireland. <i>Environmental Chemistry</i> , <b>2005</b> , 2, 291	3.2	23



186	Measurements of biogenic volatile organic compounds at a grazed savannah grassland agricultural landscape in South Africa. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 15665-15688	6.8	22
185	A sampler for atmospheric volatile organic compounds by copter unmanned aerial vehicles. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 3123-3135	4	22
184	The significance of land-atmosphere interactions in the Earth system—LEAPS achievements and perspectives. <i>Anthropocene</i> , <b>2015</b> , 12, 69-84	3.9	22
183	Quantitative infrared absorption cross sections of isoprene for atmospheric measurements. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 3839-3847	4	22
182	Seasonal variations in terpene emission factors of dominant species in four ecosystems in NE Spain. <i>Atmospheric Environment</i> , <b>2013</b> , 70, 149-158	5.3	22
181	Emission of sunscreen salicylic esters from desert vegetation and their contribution to aerosol formation. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 7367-7371	6.8	22
180	Seasonal variations in whole-ecosystem BVOC emissions from a subtropical bamboo plantation in China. <i>Atmospheric Environment</i> , <b>2016</b> , 124, 12-21	5.3	21
179	Chamber-based insights into the factors controlling epoxydiol (IEPOX) secondary organic aerosol (SOA) yield, composition, and volatility. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 11253-11265	6.8	21
178	Uncertainties of isoprene emissions in the MEGAN model estimated for a coniferous and broad-leaved mixed forest in Southern China. <i>Atmospheric Environment</i> , <b>2014</b> , 98, 105-110	5.3	21
177	Biomass Burning in Amazonia: Emissions, Long-Range Transport of Smoke and Its Regional and Remote Impacts. <i>Geophysical Monograph Series</i> , <b>2009</b> , 183-206	1.1	21
176	Description and evaluation of the Model for Ozone and Related chemical Tracers, version 4 (MOZART-4)		21
175	Volatilizable Biogenic Organic Compounds (VBOCs) with two dimensional Gas Chromatography-Time of Flight Mass Spectrometry (GC & b&gt;&lt;/b>&gt; GC-TOFMS): sampling methods, VBOC complexity, and chromatographic retention data. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 245-261	4	20
174	Isoprene photo-oxidation products quantify the effect of pollution on hydroxyl radicals over Amazonia. <i>Science Advances</i> , <b>2018</b> , 4, eaar2547	14.3	19
173	Physiological Reality in Relation to Ecosystem- and Global-Level Estimates of Isoprene Emission <b>1991</b> , 185-207		19
172	Sensitivity of biogenic volatile organic compounds to land surface parameterizations and vegetation distributions in California. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 1959-1976	6.3	19
171	Understanding isoprene photooxidation using observations and modeling over a subtropical forest in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 7725-7741	6.8	18
170	New Directions: GEIA's 2020 vision for better air emissions information. <i>Atmospheric Environment</i> , <b>2013</b> , 81, 710-712	5.3	18
169	What is the importance of climate model bias when projecting the impacts of climate change on land surface processes?. <i>Biogeosciences</i> , <b>2014</b> , 11, 2601-2622	4.6	18

168	Emissions of BVOC from lodgepole pine in response to mountain pine beetle attack in high and low mortality forest stands. <i>Biogeosciences</i> , <b>2013</b> , 10, 483-499	4.6	18
167	EXPRESSO flux measurements at upland and lowland Congo tropical forest site. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2001</b> , 53, 220-234	3.3	18
166	SEASONAL AND SPATIAL VARIATIONS IN NATURAL VOLATILE ORGANIC COMPOUND EMISSIONS <b>1997</b> , 7, 34		18
165	Seasonal cycles of isoprene concentrations in the Amazonian rainforest		18
164	Similar local, but different systemic, metabolomic responses of closely related pine subspecies to folivory by caterpillars of the processionary moth. <i>Plant Biology</i> , <b>2016</b> , 18, 484-94	3.7	18
163	Intercomparison of OH and OH reactivity measurements in a high isoprene and low NO environment during the Southern Oxidant and Aerosol Study (SOAS). <i>Atmospheric Environment</i> , <b>2018</b> , 174, 227-236	5.3	18
162	Close and distant: Contrasting the metabolism of two closely related subspecies of Scots pine under the effects of folivory and summer drought. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 8976-8988	2.8	17
161	Ethene, propene, butene and isoprene emissions from a ponderosa pine forest measured by relaxed eddy accumulation. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 13417-13438	6.8	17
160	Evaluating the effects of climate change on summertime ozone using a relative response factor approach for policymakers. <i>Journal of the Air and Waste Management Association</i> , <b>2012</b> , 62, 1061-74	2.4	17
159	Evaluating a New Deposition Velocity Module in the Noah Land-Surface Model. <i>Boundary-Layer Meteorology</i> , <b>2010</b> , 137, 271-290	3.4	17
158	Leaf level emission measurement of sesquiterpenes and oxygenated sesquiterpenes from desert shrubs and temperate forest trees using a liquid extraction technique. <i>Geochemical Journal</i> , <b>2009</b> , 43, 179-189	0.9	16
157	Natural Volatile Organic Compound Emissions from Plants and their Roles in Oxidant Balance and Particle Formation. <i>Geophysical Monograph Series</i> , <b>2009</b> , 163-181	1.1	16
156	Atmospheric variability of biogenic VOCs in the surface layer measured by proton-transfer-reaction mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2004</b> , 239, 77-86	1.9	16
155	Fine-mode organic mass concentrations and sources in the Amazonian wet season (AMAZE-08)		16
154	Impact of Short-Term Climate Variability on Volatile Organic Compounds Emissions Assessed Using OMI Satellite Formaldehyde Observations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8681-8689	4.9	15
153	Intermediate-scale horizontal isoprene concentrations in the near-canopy forest atmosphere and implications for emission heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19318-19323	11.5	15
152	Importance of wet precipitation as a removal and transport process for atmospheric water soluble carbonyls. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 790-796	5.3	15
151	Development of a regional-scale pollen emission and transport modeling framework for investigating the impact of climate change on allergic airway disease. <i>Biogeosciences</i> , <b>2013</b> , 10, 3977-4023	4.6	15

150	Are the metabolomic responses to folivory of closely related plant species linked to macroevolutionary and plant-folivore coevolutionary processes?. <i>Ecology and Evolution</i> , <b>2016</b> , 6, 4372-86 <sup>2.8</sup>	15
149	Recent past (1979-2014) and future (2070-2099) isoprene fluxes over Europe simulated with the MEGAN-MOHYCAN model. <i>Biogeosciences</i> , <b>2018</b> , 15, 3673-3690	4.6 15
148	Potential role of stabilized Criegee radicals in sulfuric acid production in a high biogenic VOC environment. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 3383-91	10.3 14
147	Relaxed Eddy Accumulation Simulations of Aerosol Number Fluxes and Potential Proxy Scalars. <i>Boundary-Layer Meteorology</i> , <b>2008</b> , 129, 451-468	3.4 14
146	Tropospheric HONO distribution and chemistry in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 9107-9120	6.8 13
145	Forest-atmosphere BVOC exchange in diverse and structurally complex canopies: 1-D modeling of a mid-successional forest in northern Michigan. <i>Atmospheric Environment</i> , <b>2015</b> , 120, 217-226	5.3 13
144	Amazonian biogenic volatile organic compounds under global change. <i>Global Change Biology</i> , <b>2020</b> , 26, 4722-4751	11.4 13
143	A long-term estimation of biogenic volatile organic compound (BVOC) emission in China from 2001-2016: the roles of land cover change and climate variability. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 4825-4848	6.8 13
142	A new paradigm of quantifying ecosystem stress through chemical signatures. <i>Ecosphere</i> , <b>2016</b> , 7, e015591	3.1 13
141	Simple, stable, and affordable: Towards long-term ecosystem scale flux measurements of VOCs. <i>Atmospheric Environment</i> , <b>2016</b> , 131, 225-227	5.3 13
140	Evaluation of regional isoprene emission factors and modeled fluxes in California. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 9611-9628	6.8 12
139	Leaf phenology as one important driver of seasonal changes in isoprene emissions in central Amazonia. <i>Biogeosciences</i> , <b>2018</b> , 15, 4019-4032	4.6 12
138	U.S. National Biogenic Sulfur Emissions Inventory. <i>ACS Symposium Series</i> , <b>1989</b> , 14-30	0.4 12
137	Airborne measurements of isoprene and monoterpene emissions from southeastern U.S. forests. <i>Science of the Total Environment</i> , <b>2017</b> , 595, 149-158	10.2 11
136	Springtime ecosystem-scale monoterpene fluxes from Mediterranean pine forests across a precipitation gradient. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 237-238, 150-159	5.8 11
135	Drought impacts on photosynthesis, isoprene emission and atmospheric formaldehyde in a mid-latitude forest. <i>Atmospheric Environment</i> , <b>2017</b> , 167, 190-201	5.3 11
134	Contribution from biogenic organic compounds to particle growth during the 2010 BEACHON-ROCS campaign in a Colorado temperate needleleaf forest. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 8643-8656	6.8 11
133	Quantitative and qualitative sensing techniques for biogenic volatile organic compounds and their oxidation products. <i>Environmental Sciences: Processes and Impacts</i> , <b>2013</b> , 15, 1301-14	4.3 11

132	The tropical forest and fire emissions experiment: laboratory fire measurements and synthesis of campaign data		11
131	Integration of airborne and ground observations of nitryl chloride in the Seoul metropolitan area and the implications on regional oxidation capacity during KORUS-AQ 2016. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 12779-12795	6.8	11
130	Sensitivity of isoprene emissions to drought over south-eastern Australia: Integrating models and satellite observations of soil moisture. <i>Atmospheric Environment</i> , <b>2019</b> , 209, 112-124	5.3	10
129	Sensitivity analysis of simulated SOA loadings using a variance-based statistical approach. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 499-519	7.1	10
128	Large drought-induced variations in oak leaf volatile organic compound emissions during PINOT NOIR 2012. <i>Chemosphere</i> , <b>2016</b> , 146, 8-21	8.4	10
127	Large methane releases lead to strong aerosol forcing and reduced cloudiness. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6961-6969	6.8	10
126	Insights Into the Dynamics of Forest Succession and Non-Methane Hydrocarbon Trace Gas Emissions. <i>Journal of Biogeography</i> , <b>1995</b> , 22, 493	4.1	10
125	Building wake dispersion at an Arctic industrial site: Field tracer observations and plume model evaluations. <i>Atmospheric Environment Part A General Topics</i> , <b>1990</b> , 24, 2329-2347		10
124	Global and regional impacts of land cover changes on isoprene emissions derived from spaceborne data and the MEGAN model. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 8413-8436	6.8	10
123	Constraining nucleation, condensation, and chemistry in oxidation flow reactors using size-distribution measurements and aerosol microphysical modeling. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 12433-12460	6.8	10
122	Numerical model to quantify biogenic volatile organic compound emissions: The Pearl River Delta region as a case study. <i>Journal of Environmental Sciences</i> , <b>2016</b> , 46, 72-82	6.4	9
121	A MODIS Photochemical Reflectance Index (PRI) as an Estimator of Isoprene Emissions in a Temperate Deciduous Forest. <i>Remote Sensing</i> , <b>2018</b> , 10, 557	5	9
120	Global dataset of biogenic VOC emissions calculated by the MEGAN model over the last 30 years		9
119	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5)		9
118	Sesquiterpene emissions from vegetation: a review		9
117	The Simulator of the Timing and Magnitude of Pollen Season (STaMPS) model: a pollen production model for regional emission and transport modeling		9
116	Biomass burning emission disturbances of isoprene oxidation in a tropical forest. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 12715-12734	6.8	9
115	Air-chemistry & turbulence: power-law scaling and statistical regularity. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8395-8413	6.8	8

114	Development and Assessment of a High-Resolution Biogenic Emission Inventory from Urban Green Spaces in China.. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	8
113	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008-2013		8
112	The Tropical Forest and fire emissions experiment: overview and airborne fire emission factor measurements		8
111	PTR-TOF-MS eddy covariance measurements of isoprene and monoterpene fluxes from an eastern Amazonian rainforest. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 7179-7191	6.8	8
110	Effects of Anthropogenic and Biogenic Volatile Organic Compounds on Los Angeles Air Quality. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 12191-12201	10.3	8
109	Evaluation of semi-static enclosure technique for rapid surveys of biogenic volatile organic compounds (BVOCs) emission measurements. <i>Atmospheric Environment</i> , <b>2019</b> , 212, 1-5	5.3	7
108	Primary and secondary organics in the tropical Amazonian rainforest aerosols: chiral analysis of 2-methyltetraols. <i>Environmental Sciences: Processes and Impacts</i> , <b>2014</b> , 16, 1413-21	4.3	7
107	Intensive measurements of gas, water, and energy exchange between vegetation and troposphere during the MONTES campaign in a vegetation gradient from short semi-desertic shrublands to tall wet temperate forests in the NW Mediterranean Basin. <i>Atmospheric Environment</i> , <b>2013</b> , 75, 348-364	5.3	7
106	Correction to Seasonal variation of biogenic VOC emissions above a mixed hardwood forest in northern Michigan <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	7
105	Atmospheric dispersion in the arctic: Winter-time boundary-layer measurements. <i>Boundary-Layer Meteorology</i> , <b>1989</b> , 49, 339-366	3.4	7
104	Comparison of different real time VOC measurement techniques in a ponderosa pine forest		7
103	A tethered-balloon PTRMS sampling approach for surveying of landscape-scale biogenic VOC fluxes. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 2263-2271	4	6
102	Evaluation of MEGAN-CLM parameter sensitivity to predictions of isoprene emissions from an Amazonian rainforest		6
101	Attribution of projected changes in US ozone and PM <sub>2.5</sub> concentrations to global changes		6
100	Upscaling Biogenic Volatile Compound Emissions from Leaves to Landscapes. <i>Tree Physiology</i> , <b>2013</b> , 33, 391-414		6
99	Dysautonomia in prodromal Synucleinopathy: peripheral versus central autonomic degeneration. <i>European Journal of Neurology</i> , <b>2016</b> , 23, 878-90	6	6
98	Biogenic isoprene emissions driven by regional weather predictions using different initialization methods: case studies during the SEAC <sup>4</sup> RS and DISCOVER-AQ airborne campaigns. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 3085-3104	6.3	5
97	A novel Whole Air Sample Profiler (WASP) for the quantification of volatile organic compounds in the boundary layer. <i>Atmospheric Measurement Techniques</i> , <b>2013</b> , 6, 2703-2712	4	5

96	Corrigendum to "Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools" published in <i>Atmos. Chem. Phys.</i> , 10, 1691-1699, 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 563-563	6.8	5
95	Observational constraints on the global atmospheric budget of ethanol		5
94	Branch-level measurement of total OH reactivity for constraining unknown BVOC emission during the CABINEX (Community Atmosphere-Biosphere INteractions Experiments)-09 Field Campaign		5
93	Undisturbed and disturbed above canopy ponderosa pine emissions: PTR-TOF-MS measurements and MEGAN 2.1 model results		5
92	Evaluating the performance of pyrogenic and biogenic emission inventories against one decade of space-based formaldehyde columns		5
91	Model of Emissions of Gases and Aerosol from Nature Version 3 (MEGAN3) for Estimating Biogenic Emissions. <i>Springer Proceedings in Complexity</i> , <b>2020</b> , 187-192	0.3	5
90	Canopy level emissions of 2-methyl-3-buten-2-ol, monoterpenes, and sesquiterpenes from an experimental <i>Pinus taeda</i> plantation. <i>Science of the Total Environment</i> , <b>2016</b> , 565, 730-741	10.2	5
89	Atmo-ecometabolomics: a novel atmospheric particle chemical characterization methodology for ecological research. <i>Environmental Monitoring and Assessment</i> , <b>2019</b> , 191, 78	3.1	5
88	Emission of volatile halogenated organic compounds over various Dead Sea landscapes. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 7667-7690	6.8	4
87	Volatilizable biogenic organic compounds (VBOCs) with two dimensional gas chromatography-time of flight mass spectrometry (GC-TOFMS): sampling methods, VBOC complexity, and chromatographic retention data <b>2011</b> ,		4
86	Corrigendum to "An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08)" published in <i>Atmos. Chem. Phys.</i> , 10, 11415-11438, 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 11565-11565	6.8	4
85	The BEMA-project - A North American perspective. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 251-255	5.3	4
84	Modeling of Plume Downwash and Enhanced Diffusion near Buildings: Comparison to Wind Tunnel Observations for in Arctic Industrial Site. <i>Journal of Applied Meteorology and Climatology</i> , <b>1989</b> , 28, 343-353		4
83	Three-Dimensional Numerical Simulation of Plume Downwash with a k-ε Turbulence Model. <i>Journal of Applied Meteorology and Climatology</i> , <b>1990</b> , 29, 633-643		4
82	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08)		4
81	Atmospheric amines and ammonia measured with a Chemical Ionization Mass Spectrometer (CIMS)		4
80	How consistent are top-down hydrocarbon emissions based on formaldehyde observations from GOME-2 and OMI?		4
79	Global isoprene emissions estimated using MEGAN, ECMWF analyses and a detailed canopy environment model		4

78	The tropical forest and fire emissions experiment: method evaluation of volatile organic compound emissions measured by PTR-MS, FTIR, and GC from tropical biomass burning		4
77	The effects of global changes upon regional ozone pollution in the United States		4
76	Environmental controls over methanol emission from leaves		4
75	Estimation of isoprenoid emission factors from enclosure studies: measurements, data processing, quality and standardized measurement protocols		4
74	Bidirectional Exchange of Volatile Organic Compounds <b>2015</b> , 107-113		4
73	An ecosystem-scale perspective of the net land methanol flux: synthesis of micrometeorological flux measurements <b>2015</b> , 15, 2577-2613		4
72	Monoterpene emissions from an understory species, <i>Pteridium aquilinum</i> . <i>Atmospheric Environment</i> , <b>2012</b> , 54, 308-312	5.3	3
71	Modelling new particle formation events in the South African savannah. <i>South African Journal of Science</i> , <b>2014</b> , 110, 1-12	1.3	3
70	Peroxyacetyl Nitrate and Ozone Enhancement at Taehwa Research Forest under the Influence of Seoul Metropolitan Area. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 2262-2273	4.6	3
69	Observations of glyoxal and formaldehyde as metrics for the anthropogenic impact on rural photochemistry		3
68	Urban-rural interactions in a South Korean forest: uncertainties in isoprene-OH interactions limit understanding of ozone and secondary organic aerosols production		3
67	Quantitative infrared absorption cross-sections of isoprene for atmospheric measurements		3
66	What is the importance of climate model bias when projecting the impacts of climate change on land surface processes?		3
65	Development of a reduced-complexity plant canopy physics surrogate model for use in chemical transport models: a case study with GEOS-Chem v12.3.0. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 2569-2585	6.3	3
64	Contrasting Reactive Organic Carbon Observations in the Southeast United States (SOAS) and Southern California (CalNex). <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 14923-14935	10.3	3
63	Microanalysis of Primary Biological Particles from Model Grass over Its Life Cycle. <i>ACS Earth and Space Chemistry</i> , <b>2020</b> , 4, 1895-1905	3.2	3
62	Chamber-based insights into the factors controlling IEPOX SOA yield, composition, and volatility <b>2019</b> ,		2
61	Contributions to OH reactivity from unexplored volatile organic compounds measured by PTR-ToF-MS I A case study in a suburban forest of the Seoul Metropolitan Area during KORUS-AQ 2016 <b>2020</b> ,		2

60	Reducing the negative human-health impacts of bioenergy crop emissions through region-specific crop selection. <i>Environmental Research Letters</i> , <b>2015</b> , 10, 054004	6.2	2
59	Reply to 'Circadian control of global isoprene emissions'. <i>Nature Geoscience</i> , <b>2012</b> , 5, 435-436	18.3	2
58	Corrigendum to 'The tropical forest and fire emissions experiment: laboratory fire measurements and synthesis of campaign data' published in <i>Atmos. Chem. Phys.</i> , 8, 3509-3527, 2008. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 4497-4497	6.8	2
57	Analyzing method on biogenic volatile organic compounds. <i>Advances in Atmospheric Sciences</i> , <b>2002</b> , 19, 64-72	2.9	2
56	An infrared method for plume rise visualization and measurement. <i>Atmospheric Environment Part A General Topics</i> , <b>1990</b> , 24, 2835-2838		2
55	Reconciling Observed and Predicted Tropical Rainforest OH Concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2022</b> , 127,	4.4	2
54	Oligomer and highly oxygenated organic molecule formation from oxidation of oxygenated monoterpenes emitted by California sage plants. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 10953-10965	6.8	2
53	Emission of biogenic volatile organic compounds from warm and oligotrophic seawater in the Eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 12741-12759	6.8	2
52	Large estragole fluxes from oil palms in Borneo		2
51	Anthropogenic influence on biogenic secondary organic aerosol		2
50	First direct measurements of formaldehyde flux via eddy covariance: implications for missing in-canopy formaldehyde sources		2
49	First space-based derivation of the global atmospheric methanol emission fluxes		2
48	Modelling atmospheric OH-reactivity in a boreal forest ecosystem		2
47	Isoprene emissions over Asia 1979-2012: impact of climate and land use changes		2
46	Impacts of seasonal and regional variability in biogenic VOC emissions on surface ozone in the Pearl River Delta region, China		2
45	The effects of global change upon United States air quality		2
44	Contribution from biogenic organic compounds to particle growth during the 2010 BEACHON-ROCS campaign in a Colorado temperate needle leaf forest		2
43	Chemical sensing of plant stress at the ecosystem scale		2



42	Plant physiological and environmental controls over the exchange of acetaldehyde between forest canopies and the atmosphere		2
41	Contribution of flowering trees to urban atmospheric biogenic volatile organic compound emissions		2
40	Emissions of BVOC from Lodgepole Pine in response to Mountain Pine Beetle attack in high and low mortality forest stands		2
39	In-canopy gas-phase chemistry during CABINEX 2009: sensitivity of a 1-D canopy model to vertical mixing and isoprene chemistry		2
38	Evaluation of HO <sub>2</sub> sources and cycling using measurement-constrained model calculations in a 2-methyl-3-butene-2-ol (MBO) and monoterpene (MT) dominated ecosystem		2
37	A portable, low-cost relaxed eddy accumulation (REA) system for quantifying ecosystem-level fluxes of volatile organics. <i>Atmospheric Environment</i> , <b>2020</b> , 242, 117764	5.3	2
36	Cropland trees need to be included for accurate model simulations of land-atmosphere heat fluxes, temperature, boundary layer height, and ozone. <i>Science of the Total Environment</i> , <b>2021</b> , 751, 141728	10.2	2
35	Near-canopy horizontal concentration heterogeneity of semivolatile oxygenated organic compounds and implications for 2-methyltetrols primary emissions. <i>Environmental Science Atmospheres</i> , <b>2021</b> , 1, 8-20		2
34	Deciphering the Source of Primary Biological Aerosol Particles: A Pollen Case Study. <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 969-979	3.2	2
33	Integration of Airborne and Ground Observations of Nitryl Chloride in the Seoul Metropolitan Area and the Implications on Regional Oxidation Capacity During KORUS-AQ 2016 <b>2018</b> ,		2
32	River winds and pollutant recirculation near the Manaus city in the central Amazon. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	2
31	TROPOSPHERIC CHEMISTRY AND COMPOSITION   Biogenic Hydrocarbons <b>2015</b> , 214-217		1
30	Bi-directional Exchange of Volatile Organic Compounds <b>2015</b> , 169-179		1
29	Linkages between land initialization of the NASA-Unified WRF v7 and biogenic isoprene emission estimates during the SEAC <sup>4</sup> RS and DISCOVER-AQ airborne campaigns <b>2017</b> ,		1
28	Ethene, propene, butene and isoprene emissions from a ponderosa pine forest measured by Relaxed Eddy Accumulation <b>2017</b> ,		1
27	Measurement of oak tree density with Landsat TM data for estimating biogenic isoprene emissions in Tennessee, USA. <i>International Journal of Remote Sensing</i> , <b>2001</b> , 22, 2793-2810	3.1	1
26	Global terrestrial isoprene emission models: sensitivity to variability in climate and vegetation		1
25	Contrasting organic aerosol particles from boreal and tropical forests during HUMPPA-COPEC-2010 and AMAZE-08 using coherent vibrational spectroscopy		1

24	Effect of isoprene emissions from major forests on ozone formation in the city of Shanghai, China		1
23	BVOC-aerosol-climate interactions in the global aerosol-climate model ECHAM5.5-HAM2		1
22	An evaluation of O <sub>3</sub> dry deposition simulations in East Asia		1
21	Observation of isoprene hydroxynitrates in the Southeastern United States and implications for the fate of NO <sub>x</sub>		1
20	Understanding isoprene photo-oxidation using observations and modelling over a subtropical forest in the Southeast US		1
19	A new European plant-specific emission inventory of biogenic volatile organic compounds for use in atmospheric transport models		1
18	Rapid formation of isoprene photo-oxidation products observed in Amazonia		1
17	Global atmospheric budget of acetaldehyde: 3-D model analysis and constraints from in-situ and satellite observations		1
16	Volatile organic compound emissions from <i>Larrea tridentata</i> (creosotebush)		1
15	Isoprene suppression of new particle formation in mixed deciduous forest		1
14	Missing peroxy radical sources within a rural forest canopy		1
13	Evaluation of regional isoprene emission factors and modeled fluxes in California <b>2016</b> ,		1
12	Measurements of biogenic volatile organic compounds at a grazed savannah-grassland-agriculture landscape in South Africa <b>2016</b> ,		1
11	Nine years of global hydrocarbon emissions based on source inversion of OMI formaldehyde observations <b>2016</b> ,		1
10	Sensitivity of biogenic volatile organic compounds (BVOCs) to land surface parameterizations and vegetation distributions in California <b>2016</b> ,		1
9	The role of a suburban forest in controlling vertical trace gas and OH reactivity distributions - a case study for the Seoul metropolitan area. <i>Faraday Discussions</i> , <b>2021</b> , 226, 537-550	3.6	1
8	Tropical and Boreal Forest Atmosphere Interactions: A Review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2022</b> , 74, 24-163	3.3	1
7	Impact of Drought on Isoprene Fluxes Assessed Using Field Data, Satellite-Based GLEAM Soil Moisture and HCHO Observations from OMI. <i>Remote Sensing</i> , <b>2022</b> , 14, 2021	5	1

- |   |   |      |   |
|---|---|------|---|
| 6 | Contributions to OH reactivity from unexplored volatile organic compounds measured by PTR-ToF-MS in a case study in a suburban forest of the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ) 2016. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 6331-6345 | 6.8  | o |
| 5 | Isoprene Emissions Response to Drought and the Impacts on Ozone and SOA in China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033263  | 4.4  | o |
| 4 | TROPOSPHERIC CHEMISTRY AND COMPOSITION   Biogenic Hydrocarbons (inc. Isoprene) <b>2003</b> , 2385-2389  |      |   |
| 3 | Unexplored volatile organic compound emitted from petrochemical facilities: implications for ozone production and atmospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 11505-11518 <sup>6.8</sup>  |      |   |
| 2 | Assessment of background ozone concentrations in China and implications for using region-specific volatile organic compounds emission abatement to mitigate air pollution.. <i>Environmental Pollution</i> , <b>2022</b> , 119254   | 9.3  |   |
| 1 | Synergistic effects of biogenic volatile organic compounds and soil nitric oxide emissions on summertime ozone formation in China.. <i>Science of the Total Environment</i> , <b>2022</b> , 154218  | 10.2 |   |