

Thomas Karl

List of Publications by Year in descending order

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147
papers

17,252
citations

21215

62
h-index

21239

119
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230
all docs

230
docs citations

230
times ranked

11619
citing authors

#	ARTICLE	IF	CITATIONS
1	Ozone exchange within and above an irrigated Californian orchard. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1723346.	0.8	28
2	Global Perspective of Drought Impacts on Ozone Pollution Episodes. <i>Environmental Science & Technology</i> , 2022, 56, 3932-3940.	4.6	17
3	Direct observations of CO ₂ emission reductions due to COVID-19 lockdown across European urban districts. <i>Science of the Total Environment</i> , 2022, 830, 154662.	3.9	37
4	Interannual variability of terpenoid emissions in an alpine city. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5603-5618.	1.9	18
5	Energy and mass exchange at an urban site in mountainous terrain – the Alpine city of Innsbruck. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6559-6593.	1.9	4
6	Combined effects of ozone and drought stress on the emission of biogenic volatile organic compounds from <i>Quercus robur</i> . <i>Biogeosciences</i> , 2021, 18, 535-556.	1.3	13
7	Decoupling of urban CO ₂ and air pollutant emission reductions during the European SARS-CoV-2 lockdown. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3091-3102.	1.9	23
8	Revisiting Acetonitrile as Tracer of Biomass Burning in Anthropogenic-Influenced Environments. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092322.	1.5	21
9	Diversity and Interrelations Among the Constitutive VOC Emission Blends of Four Broad-Leaved Tree Species at Seedling Stage. <i>Frontiers in Plant Science</i> , 2021, 12, 708711.	1.7	7
10	First eddy covariance flux measurements of semi-volatile organic compounds with the PTR3-TOF-MS. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 8019-8039.	1.2	6
11	Rapid conversion of isoprene photooxidation products in terrestrial plants. <i>Communications Earth & Environment</i> , 2020, 1, 44.	2.6	13
12	A portable, low-cost relaxed eddy accumulation (REA) system for quantifying ecosystem-level fluxes of volatile organics. <i>Atmospheric Environment</i> , 2020, 242, 117764.	1.9	5
13	InnFLUX – an open-source code for conventional and disjunct eddy covariance analysis of trace gas measurements: an urban test case. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 1447-1465.	1.2	6
14	Atmospheric Pollutant Dispersion over Complex Terrain: Challenges and Needs for Improving Air Quality Measurements and Modeling. <i>Atmosphere</i> , 2020, 11, 646.	1.0	41
15	Studying Urban Climate and Air Quality in the Alps: The Innsbruck Atmospheric Observatory. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E488-E507.	1.7	17
16	The Interplay Between Ozone and Urban Vegetation – BVOC Emissions, Ozone Deposition, and Tree Ecophysiology. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	72
17	Gross Primary Productivity of Four European Ecosystems Constrained by Joint CO ₂ and COS Flux Measurements. <i>Geophysical Research Letters</i> , 2019, 46, 5284-5293.	1.5	38
18	Aerosol particles during the Innsbruck Air Quality Study (INNAQS): Fluxes of nucleation to accumulation mode particles in relation to selective urban tracers. <i>Atmospheric Environment</i> , 2018, 190, 376-388.	1.9	19

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19	Resolving nanoparticle growth mechanisms from size- and time-dependent growth rate analysis. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1307-1323.	1.9	28
20	Isoprene emission response to drought and the impact on global atmospheric chemistry. <i>Atmospheric Environment</i> , 2018, 183, 69-83.	1.9	62
21	Constraining nucleation, condensation, and chemistry in oxidation flow reactors using size-distribution measurements and aerosol microphysical modeling. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12433-12460.	1.9	12
22	Tropospheric HONO distribution and chemistry in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9107-9120.	1.9	22
23	A MODIS Photochemical Reflectance Index (PRI) as an Estimator of Isoprene Emissions in a Temperate Deciduous Forest. <i>Remote Sensing</i> , 2018, 10, 557.	1.8	10
24	Aerosol particles during the Innsbruck Air Quality Study (INNAQS): The impact of transient fluxes on total aerosol number exchange. <i>Atmospheric Environment</i> , 2018, 190, 389-400.	1.9	4
25	Urban flux measurements reveal a large pool of oxygenated volatile organic compound emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1186-1191.	3.3	76
26	Urban eddy covariance measurements reveal significant missing NO _x emissions in Central Europe. <i>Scientific Reports</i> , 2017, 7, 2536.	1.6	32
27	Airborne measurements of isoprene and monoterpene emissions from southeastern U.S. forests. <i>Science of the Total Environment</i> , 2017, 595, 149-158.	3.9	18
28	Springtime ecosystem-scale monoterpene fluxes from Mediterranean pine forests across a precipitation gradient. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 150-159.	1.9	15
29	Drought impacts on photosynthesis, isoprene emission and atmospheric formaldehyde in a mid-latitude forest. <i>Atmospheric Environment</i> , 2017, 167, 190-201.	1.9	16
30	Secondary organic aerosol formation from in situ OH, O ₃ , and NO ₃ oxidation of ambient forest air in an oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5331-5354.	1.9	57
31	Comprehensive characterization of atmospheric organic carbon at a forested site. <i>Nature Geoscience</i> , 2017, 10, 748-753.	5.4	66
32	Numerical modelling strategies for the urban atmosphere: general discussion. <i>Faraday Discussions</i> , 2016, 189, 635-660.	1.6	0
33	A new paradigm of quantifying ecosystem stress through chemical signatures. <i>Ecosphere</i> , 2016, 7, e01559.	1.0	16
34	Simple, stable, and affordable: Towards long-term ecosystem scale flux measurements of VOCs. <i>Atmospheric Environment</i> , 2016, 131, 225-227.	1.9	13
35	Rapid cycling of reactive nitrogen in the marine boundary layer. <i>Nature</i> , 2016, 532, 489-491.	13.7	159
36	Urban case studies: general discussion. <i>Faraday Discussions</i> , 2016, 189, 473-514.	1.6	1

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37	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2943-2970.	1.9	122
38	Seasonality of isoprenoid emissions from a primary rainforest in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3903-3925.	1.9	52
39	Evaluation of regional isoprene emission factors and modeled fluxes in California. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9611-9628.	1.9	16
40	Speciated measurements of semivolatile and intermediate volatility organic compounds (S/IVOCs) in a pine forest during BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1187-1205.	1.9	28
41	Current estimates of biogenic emissions from eucalypts uncertain for southeast Australia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6997-7011.	1.9	44
42	Spatially resolved flux measurements of NO _x from London suggest significantly higher emissions than predicted by inventories. <i>Faraday Discussions</i> , 2016, 189, 455-472.	1.6	45
43	Large drought-induced variations in oak leaf volatile organic compound emissions during PINOT NOIR 2012. <i>Chemosphere</i> , 2016, 146, 8-21.	4.2	16
44	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> , 2015, 120, 6271-6289.	1.2	56
45	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> , 2015, 21, 3657-3674.	4.2	76
46	An ecosystem-scale perspective of the net land methanol flux: synthesis of micrometeorological flux measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7413-7427.	1.9	31
47	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> , 2015, 15, 8643-8656.	1.9	15
48	Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3687-3701.	1.9	88
49	Chemistry-turbulence interactions and mesoscale variability influence the cleansing efficiency of the atmosphere. <i>Geophysical Research Letters</i> , 2015, 42, 10,894.	1.5	30
50	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11807-11833.	1.9	185
51	Quantifying sources and sinks of reactive gases in the lower atmosphere using airborne flux observations. <i>Geophysical Research Letters</i> , 2015, 42, 8231-8240.	1.5	53
52	Atmospheric benzenoid emissions from plants rival those from fossil fuels. <i>Scientific Reports</i> , 2015, 5, 12064.	1.6	104
53	Instrument intercomparison of glyoxal, methyl glyoxal and NO ₂ under simulated atmospheric conditions. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1835-1862.	1.2	50
54	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> , 2014, 48, 1285-1298.	1.5	41

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55	Observed and modeled ecosystem isoprene fluxes from an oak-dominated temperate forest and the influence of drought stress. <i>Atmospheric Environment</i> , 2014, 48, 314-322.	1.9	61
56	Total OH reactivity measurements in ambient air in a southern Rocky mountain ponderosa pine forest during BEACHON-SRM08 summer campaign. <i>Atmospheric Environment</i> , 2014, 48, 1-8.	1.9	40
57	Eddy covariance measurements of isoprene and 232-MBO based on NO ⁺ time-of-flight mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 15-19.	0.7	14
58	Airborne flux measurements of biogenic isoprene over California. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10631-10647.	1.9	42
59	Missing peroxy radical sources within a summertime ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4715-4732.	1.9	56
60	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6345-6367.	1.9	62
61	A fast-scanning DMA train for precision quantification of early nanoparticle growth. , 2013, , .		3
62	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> , 2013, 70, 3277-3287.	0.6	49
63	A novel Whole Air Sample Profiler (WASP) for the quantification of volatile organic compounds in the boundary layer. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2703-2712.	1.2	6
64	Emissions of putative isoprene oxidation products from mango branches under abiotic stress. <i>Journal of Experimental Botany</i> , 2013, 64, 3669-3679.	2.4	72
65	Undisturbed and disturbed above canopy ponderosa pine emissions: PTR-TOF-MS measurements and MEGAN 2.1 model results. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11935-11947.	1.9	49
66	Photosynthesis-dependent isoprene emission from leaf to planet in a global carbon-chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10243-10269.	1.9	82
67	Evaluation of HO ₂ and HO ₂ 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> , 2013, 13, 2031-2044.	1.9	62
68	Comparison of different real time VOC measurement techniques in a ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2893-2906.	1.9	83
69	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8585-8605.	1.9	150
70	Limited influence of dry deposition of semivolatile organic vapors on secondary organic aerosol formation in the urban plume. <i>Geophysical Research Letters</i> , 2013, 40, 3302-3307.	1.5	18
71	Observations of glyoxal and formaldehyde as metrics for the anthropogenic impact on rural photochemistry. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9529-9543.	1.9	71
72	Selective measurements of isoprene and 2-methyl-3-buten-2-ol based on NO ⁺ ionization mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11877-11884.	1.9	76

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73	Identification of the biogenic compounds responsible for size-dependent nanoparticle growth. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	61
74	Organosulfates as Tracers for Secondary Organic Aerosol (SOA) Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere. <i>Environmental Science & Technology</i> , 2012, 46, 9437-9446.	4.6	128
75	On Quantitative Determination of Volatile Organic Compound Concentrations Using Proton Transfer Reaction Time-of-Flight Mass Spectrometry. <i>Environmental Science & Technology</i> , 2012, 46, 2283-2290.	4.6	264
76	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> , 2012, 117, .	3.3	27
77	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
78	Within-plant isoprene oxidation confirmed by direct emissions of oxidation products methyl vinyl ketone and methacrolein. <i>Global Change Biology</i> , 2012, 18, 973-984.	4.2	107
79	Contribution of leaf and needle litter to whole ecosystem BVOC fluxes. <i>Atmospheric Environment</i> , 2012, 59, 302-311.	1.9	83
80	The role of boundary layer dynamics on the diurnal evolution of isoprene and the hydroxyl radical over tropical forests. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
81	Deposition fluxes of terpenes over grassland. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	37
82	Can a state-of-the-art chemistry transport model simulate Amazonian tropospheric chemistry?. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	47
83	Emission factors for open and domestic biomass burning for use in atmospheric models. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4039-4072.	1.9	1,527
84	Eddy covariance VOC emission and deposition fluxes above grassland using PTR-TOF. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 611-625.	1.9	104
85	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> , 2011, 11, 8613-8623.	1.9	80
86	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> , 2011, 11, 10317-10329.	1.9	30
87	First direct measurements of formaldehyde flux via eddy covariance: implications for missing in-canopy formaldehyde sources. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10565-10578.	1.9	101
88	Within-canopy sesquiterpene ozonolysis in Amazonia. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	73
89	Quantification of VOC emission rates from the biosphere. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 937-944.	5.8	21
90	The Canopy Horizontal Array Turbulence Study. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 593-611.	1.7	109

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91	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> , 2010, 10, 1759-1771.	1.9	140
92	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11415-11438.	1.9	170
93	Global atmospheric budget of acetaldehyde: 3-D model analysis and constraints from in-situ and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3405-3425.	1.9	278
94	Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2353-2375.	1.9	131
95	Aerosol properties, in-canopy gradients, turbulent fluxes and VOC concentrations at a pristine forest site in Amazonia. <i>Atmospheric Environment</i> , 2010, 44, 503-511.	1.9	56
96	First eddy covariance flux measurements by PTR-TOF. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 387-395.	1.2	117
97	Efficient Atmospheric Cleansing of Oxidized Organic Trace Gases by Vegetation. <i>Science</i> , 2010, 330, 816-819.	6.0	213
98	Measurement of atmospheric sesquiterpenes by proton transfer reaction-mass spectrometry (PTR-MS). <i>Atmospheric Measurement Techniques</i> , 2009, 2, 99-112.	1.2	115
99	Carbon isotope analysis of acetaldehyde emitted from leaves following mechanical stress and anoxia. <i>Plant Biology</i> , 2009, 11, 591-597.	1.8	33
100	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	171
101	Regulated large-scale annual shutdown of Amazonian isoprene emissions?. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	58
102	Emissions of volatile organic compounds inferred from airborne flux measurements over a megacity. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 271-285.	1.9	118
103	Rapid formation of isoprene photo-oxidation products observed in Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7753-7767.	1.9	136
104	Emissions from biomass burning in the Yucatan. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5785-5812.	1.9	433
105	The use of disjunct eddy sampling methods for the determination of ecosystem level fluxes of trace gases. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 981-994.	1.9	31
106	New constraints on terrestrial and oceanic sources of atmospheric methanol. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6887-6905.	1.9	160
107	New particle formation in the Front Range of the Colorado Rocky Mountains. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1577-1590.	1.9	83
108	The tropical forest and fire emissions experiment: laboratory fire measurements and synthesis of campaign data. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3509-3527.	1.9	221

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109	Investigating the sources and atmospheric processing of fine particles from Asia and the Northwestern United States measured during INTEX B. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1835-1853.	1.9	54
110	Plant physiological and environmental controls over the exchange of acetaldehyde between forest canopies and the atmosphere. <i>Biogeosciences</i> , 2008, 5, 1559-1572.	1.3	49
111	Chemical sensing of plant stress at the ecosystem scale. <i>Biogeosciences</i> , 2008, 5, 1287-1294.	1.3	93
112	Process-based estimates of terrestrial ecosystem isoprene emissions: incorporating the effects of a direct CO ₂ -isoprene interaction. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 31-53.	1.9	276
113	The Tropical Forest and Fire Emissions Experiment: overview and airborne fire emission factor measurements. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5175-5196.	1.9	212
114	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> , 2007, 7, 5883-5897.	1.9	186
115	Development of an Automated Cylindrical Ion Trap Mass Spectrometer for the Determination of Atmospheric Volatile Organic Compounds. <i>Analytical Chemistry</i> , 2007, 79, 5040-5050.	3.2	13
116	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> , 2007, 112, .	3.3	206
117	Estimates of global terrestrial isoprene emissions using MEGAN (Model of Emissions of Gases and) Tj ETQq1 1 0.784314 rgBT /Overlo 3,818	1.9	3,818
118	Volatile organic emissions from the distillation and pyrolysis of vegetation. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 81-91.	1.9	74
119	Biogenic volatile organic compound emissions from desert vegetation of the southwestern US. <i>Atmospheric Environment</i> , 2006, 40, 1645-1660.	1.9	73
120	The bi-directional exchange of oxygenated VOCs between a loblolly pine (<l>Pinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3015-3031.	1.9	109
121	Coupling between Land Ecosystems and the Atmospheric Hydrologic Cycle through Biogenic Aerosol Pathways. <i>Bulletin of the American Meteorological Society</i> , 2005, 86, 1738-1742.	1.7	43
122	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> , 2005, 110, .	3.3	117
123	Senescing grass crops as regional sources of reactive volatile organic compounds. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	58
124	Atmospheric variability of biogenic VOCs in the surface layer measured by proton-transfer-reaction mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2004, 239, 77-86.	0.7	17
125	Source Identification of Volatile Organic Compounds in Houston, Texas. <i>Environmental Science & Technology</i> , 2004, 38, 1338-1347.	4.6	67
126	Intercomparison of Volatile Organic Carbon Measurement Techniques and Data at La Porte during the TexAQS2000 Air Quality Study. <i>Environmental Science & Technology</i> , 2004, 38, 221-228.	4.6	69

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127	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> , 2004, 109, .	3.3	223
128	Hydrocarbon source signatures in Houston, Texas: Influence of the petrochemical industry. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	145
129	Trace gas monitoring at the Mauna Loa Baseline Observatory using Proton-Transfer Reaction Mass Spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003, 223-224, 527-538.	0.7	45
130	Sensitivity and specificity of atmospheric trace gas detection by proton-transfer-reaction mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003, 223-224, 365-382.	0.7	289
131	Dynamic measurements of partition coefficients using proton-transfer-reaction mass spectrometry (PTR-MS). <i>International Journal of Mass Spectrometry</i> , 2003, 223-224, 383-395.	0.7	55
132	Use of proton-transfer-reaction mass spectrometry to characterize volatile organic compound sources at the La Porte super site during the Texas Air Quality Study 2000. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	91
133	Seasonal variation of biogenic VOC emissions above a mixed hardwood forest in northern Michigan. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	147
134	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> , 2002, 2, 279-291.	1.9	184
135	On-line analysis of the ¹³ C labeling of leaf isoprene suggests multiple subcellular origins of isoprene precursors. <i>Planta</i> , 2002, 215, 894-905.	1.6	97
136	Transient releases of acetaldehyde from tree leaves – products of a pyruvate overflow mechanism?. <i>Plant, Cell and Environment</i> , 2002, 25, 1121-1131.	2.8	92
137	High concentrations of reactive biogenic VOCs at a high altitude site in late autumn. <i>Geophysical Research Letters</i> , 2001, 28, 507-510.	1.5	59
138	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> , 2001, 106, 24157-24167.	3.3	119
139	On-Line Analysis of Reactive VOCs from Urban Lawn Mowing. <i>Environmental Science & Technology</i> , 2001, 35, 2926-2931.	4.6	70
140	Human breath isoprene and its relation to blood cholesterol levels: new measurements and modeling. <i>Journal of Applied Physiology</i> , 2001, 91, 762-770.	1.2	232
141	Eddy covariance measurement of biogenic oxygenated VOC emissions from hay harvesting. <i>Atmospheric Environment</i> , 2001, 35, 491-495.	1.9	110
142	Biogenic C5 VOCs: release from leaves after freeze-thaw wounding and occurrence in air at a high mountain observatory. <i>Atmospheric Environment</i> , 2001, 35, 3905-3916.	1.9	144
143	Variability-lifetime relationship of VOCs observed at the Sonnblick Observatory 1999 – estimation of HO-densities. <i>Atmospheric Environment</i> , 2001, 35, 5287-5300.	1.9	49
144	PTR-MS real time monitoring of the emission of volatile organic compounds during postharvest aging of berryfruit. <i>Postharvest Biology and Technology</i> , 1999, 17, 143-151.	2.9	67

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145	Acetone, methanol, and other partially oxidized volatile organic emissions from dead plant matter by abiological processes: Significance for atmospheric HOxchemistry. <i>Global Biogeochemical Cycles</i> , 1999, 13, 9-17.	1.9	246
146	Volatile organic compounds emitted after leaf wounding: On-line analysis by proton-transfer-reaction mass spectrometry. <i>Journal of Geophysical Research</i> , 1999, 104, 15963-15974.	3.3	277
147	Quantification of passive smoking using proton-transfer-reaction mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 1998, 178, L1-L4.	0.7	35