Paul S Monks

List of Publications by Year
in descending order

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238 papers	14,163 citations	31902 53 h-index	30010 103 g-index
299 all docs	299 docs citations	299 times ranked	11748 citing authors

#	Article	IF	Citations
1	Tropospheric ozone and its precursors from the urban to the global scale from air quality to short-lived climate forcer. Atmospheric Chemistry and Physics, 2015, 15, 8889-8973.	1.9	942
2	Atmospheric composition change â€“ global and regional air quality. Atmospheric Environment, 2009, 43, 5268-5350.	1.9	714
3	Proton-Transfer Reaction Mass Spectrometry. Chemical Reviews, 2009, 109, 861-896.	23.0	612
4	Atmospheric composition change: Ecosystemsâ€“Atmosphere interactions. Atmospheric Environment, 2009, 43, 5193-5267.	1.9	609
5	Gas-phase radical chemistry in the troposphere. Chemical Society Reviews, 2005, 34, 376.	18.7	458
6	A review of the observations and origins of the spring ozone maximum. Atmospheric Environment, 2000, 34, 3545-3561.	1.9	446
7	Chemistry and the Linkages between Air Quality and Climate Change. Chemical Reviews, 2015, 115, 3856-3897.	23.0	315
8	Review: Untangling the influence of air-mass history in interpreting observed atmospheric composition. Atmospheric Research, 2012, 104-105, 1-39.	1.8	281
9	Direct evidence for coastal iodine particles from Laminaria macroalgae â€“ linkage to emissions of molecular iodine. Atmospheric Chemistry and Physics, 2004, 4, 701-713.	1.9	252
10	Mammals divert endogenous genotoxic formaldehyde into one-carbon metabolism. Nature, 2017, 548, 549-554.	13.7	246
11	MAX-DOAS O4measurements: A new technique to derive information on atmospheric aerosols: 2. Modeling studies. Journal of Geophysical Research, 2006, 111, .	3.3	244
12	Atmospheric composition change: Climateâ€“Chemistry interactions. Atmospheric Environment, 2009, 43, 5138-5192.	1.9	243
13	Quantifying the magnitude of a missing hydroxyl radical source in a tropical rainforest. Atmospheric Chemistry and Physics, 2011, 11, 7223-7233.	1.9	195
14	Modelling the effectiveness of urban trees and grass on PM2.5 reduction via dispersion and deposition at a city scale. Atmospheric Environment, 2016, 147, 1-10.	1.9	189
15	Demonstration of Proton-Transfer Reaction Time-of-Flight Mass Spectrometry for Real-Time Analysis of Trace Volatile Organic Compounds. Analytical Chemistry, 2004, 76, 3841-3845.	3.2	183
16	Global comparison of VOC and CO observations in urban areas. Atmospheric Environment, 2010, 44, 5053-5064.	1.9	175
17	Air quality affected by trees in real street canyons: The case of Marylebone neighbourhood in central London. Urban Forestry and Urban Greening, 2017, 22, 41-53.	2.3	162
18	Nitrogen management is essential to prevent tropical oil palm plantations from causing ground-level ozone pollution. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18447-18451.	3.3	161

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19	Measuring atmospheric composition change. Atmospheric Environment, 2009, 43, 5351-5414.	1.9	160
20	Free radical modelling studies during the UK TORCH Campaign in Summer 2003. Atmospheric Chemistry and Physics, 2007, 7, 167-181.	1.9	151
21	Simulating atmospheric composition over a South-East Asian tropical rainforest: performance of a chemistry box model. Atmospheric Chemistry and Physics, 2010, 10, 279-298.	1.9	132
22	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. Atmospheric Chemistry and Physics, 2010, 10, 169-199.	1.9	130
23	Have primary emission reduction measures reduced ozone across Europe? An analysis of European rural background ozone trends 1996â€“2005. Atmospheric Chemistry and Physics, 2012, 12, 437-454.	1.9	128
24	Modeling OH, HO2, and RO2radicals in the marine boundary layer: 1. Model construction and comparison with field measurements. Journal of Geophysical Research, 1999, 104, 30241-30255.	3.3	126
25	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RHaMBLe) Roscoff coastal study. Atmospheric Chemistry and Physics, 2010, 10, 2975-2999.	1.9	125
26	Ozone photochemistry and elevated isoprene during the UK heatwave of august 2003. Atmospheric Environment, 2006, 40, 7598-7613.	1.9	122
27	Distribution of gaseous and particulate organic composition during dark Î±-pinene ozonolysis. Atmospheric Chemistry and Physics, 2010, 10, 2893-2917.	1.9	122
28	A CFD study on the effectiveness of trees to disperse road traffic emissions at a city scale. Atmospheric Environment, 2015, 120, 1-14.	1.9	114
29	Development and chamber evaluation of the MCM v3.2 degradation scheme for Î²-caryophyllene. Atmospheric Chemistry and Physics, 2012, 12, 5275-5308.	1.9	110
30	Meteorology, Air Quality, and Health in London: The ClearfLo Project. Bulletin of the American Meteorological Society, 2015, 96, 779-804.	1.7	105
31	Photolysis frequency measurement techniques: results of a comparison within the ACCENT project. Atmospheric Chemistry and Physics, 2008, 8, 5373-5391.	1.9	99
32	Seasonal characteristics of tropical marine boundary layer air measured at the Cape Verde Atmospheric Observatory. Journal of Atmospheric Chemistry, 2010, 67, 87-140.	1.4	97
33	Ultrafine particles in four European urban environments: Results from a new continuous long-term monitoring network. Atmospheric Environment, 2016, 136, 68-81.	1.9	92
34	Two Aldehyde Clearance Systems Are Essential to Prevent Lethal Formaldehyde Accumulation in Mice and Humans. Molecular Cell, 2020, 80, 996-1012.e9.	4.5	92
35	Total radical yields from tropospheric ethene ozonolysis. Physical Chemistry Chemical Physics, 2011, 13, 11002.	1.3	90
36	Gas phase precursors to anthropogenic secondary organic aerosol: detailed observations of 1,3,5-trimethylbenzene photooxidation. Atmospheric Chemistry and Physics, 2009, 9, 635-665.	1.9	88

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37	Isoprene oxidation mechanisms: measurements and modelling of OH and HO₂ over a South-East Asian tropical rainforest during the OP3 field campaign. Atmospheric Chemistry and Physics, 2011, 11, 6749-6771.	1.9	88
38	Production of peroxy radicals at night via reactions of ozone and the nitrate radical in the marine boundary layer. Journal of Geophysical Research, 2001, 106, 12669-12687.	3.3	87
39	Fundamental ozone photochemistry in the remote marine boundary layer the soapex experiment, measurement and theory. Atmospheric Environment, 1998, 32, 3647-3664.	1.9	85
40	The Cabauw Intercomparison campaign for Nitrogen Dioxide measuring Instruments (CINDI): design, execution, and early results. Atmospheric Measurement Techniques, 2012, 5, 457-485.	1.2	83
41	OH and HO₂ chemistry during NAMBLEX: roles of oxygenates, halogen oxides and heterogeneous uptake. Atmospheric Chemistry and Physics, 2006, 6, 1135-1153.	1.9	82
42	A study of peroxy radicals and ozone photochemistry at coastal sites in the northern and southern hemispheres. Journal of Geophysical Research, 1997, 102, 25417-25427.	3.3	81
43	Chemical ionization reaction time-of-flight mass spectrometry: Multi-reagent analysis for determination of trace gas composition. International Journal of Mass Spectrometry, 2006, 254, 85-93.	0.7	81
44	Intercomparison of oxygenated volatile organic compound measurements at the SAPHIR atmosphere simulation chamber. Journal of Geophysical Research, 2008, 113, .	3.3	78
45	Impacts of HO_xregeneration and recycling in the oxidation of isoprene: Consequences for the composition of past, present and future atmospheres. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	78
46	Comparison of OMI and groundâ€based in situ and MAXâ€DOAS measurements of tropospheric nitrogen dioxide in an urban area. Journal of Geophysical Research, 2008, 113, .	3.3	76
47	The effect of photochemical ageing and initial precursor concentration on the composition and hygroscopic properties of Î²-caryophyllene secondary organic aerosol. Atmospheric Chemistry and Physics, 2012, 12, 6417-6436.	1.9	76
48	Peroxy radical chemistry and the control of ozone photochemistry at Mace Head, Ireland during the summer of 2002. Atmospheric Chemistry and Physics, 2006, 6, 2193-2214.	1.9	70
49	Chemical composition observed over the mid-Atlantic and the detection of pollution signatures far from source regions. Journal of Geophysical Research, 2007, 112, .	3.3	70
50	Analysis of longâ€term observations of NO_x and CO in megacities and application to constraining emissions inventories. Geophysical Research Letters, 2016, 43, 9920-9930.	1.5	69
51	Oxidation photochemistry in the Southern Atlantic boundary layer: unexpected deviations of photochemical steady state. Atmospheric Chemistry and Physics, 2011, 11, 8497-8513.	1.9	68
52	Relationships between ozone photolysis rates and peroxy radical concentrations in clean marine air over the Southern Ocean. Journal of Geophysical Research, 1997, 102, 12805-12817.	3.3	67
53	The North Atlantic Marine Boundary Layer Experiment(NAMBLEX). Overview of the campaign held at Mace Head, Ireland, in summer 2002. Atmospheric Chemistry and Physics, 2006, 6, 2241-2272.	1.9	65
54	Air pollution alters Staphylococcus aureus and Streptococcus pneumoniae biofilms, antibiotic tolerance and colonisation. Environmental Microbiology, 2017, 19, 1868-1880.	1.8	65

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55	Measuring atmospheric CO₂ from space using Full Spectral Initiation (FSI) WFM-DOAS. Atmospheric Chemistry and Physics, 2006, 6, 3517-3534.	1.9	64
56	Diagnosis of COVID-19 by exhaled breath analysis using gas chromatography-mass spectrometry. ERJ Open Research, 2021, 7, 00139-2021.	1.1	64
57	Oxidized nitrogen and ozone production efficiencies in the springtime free troposphere over the Alps. Journal of Geophysical Research, 2000, 105, 14547-14559.	3.3	63
58	Performance of a single-monochromator diode array spectroradiometer for the determination of actinic flux and atmospheric photolysis frequencies. Journal of Geophysical Research, 2003, 108, .	3.3	61
59	Differentiation of isobaric compounds using chemical ionization reaction mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 3356-3362.	0.7	61
60	Establishing Lagrangian connections between observations within air masses crossing the Atlantic during the International Consortium for Atmospheric Research on Transport and Transformation experiment. Journal of Geophysical Research, 2006, 111, .	3.3	60
61	Air quality and climate change: Designing new win-win policies for Europe. Environmental Science and Policy, 2016, 65, 48-57.	2.4	60
62	HO_x observations over West Africa during AMMA: impact of isoprene and NO_x. Atmospheric Chemistry and Physics, 2010, 10, 9415-9429.	1.9	59
63	International Geosphereâ€“Biosphere Programme and Earth system science: Three decades of co-evolution. Anthropocene, 2015, 12, 3-16.	1.6	57
64	Technical Note: Performance of Chemical Ionization Reaction Time-of-Flight Mass Spectrometry (CIR-TOF-MS) for the measurement of atmospherically significant oxygenated volatile organic compounds. Atmospheric Chemistry and Physics, 2007, 7, 609-620.	1.9	56
65	Night-time peroxy radical chemistry in the remote marine boundary layer over the Southern Ocean. Geophysical Research Letters, 1996, 23, 535-538.	1.5	55
66	Eastern Atlantic Spring Experiment 1997 (EASE97) 2. Comparisons of model concentrations of OH, HO2, and RO2with measurements. Journal of Geophysical Research, 2002, 107, ACH 5-1.	3.3	55
67	Forest fire plumes over the North Atlantic: p-TOMCAT model simulations with aircraft and satellite measurements from the ITOP/ICARTT campaign. Journal of Geophysical Research, 2007, 112, .	3.3	55
68	New Directions: A role for isoprene in biosphereâ€“climateâ€“chemistry feedbacks. Atmospheric Environment, 2000, 34, 1659-1660.	1.9	53
69	A seasonal comparison of ozone photochemistry in the remote marine boundary layer. Atmospheric Environment, 2000, 34, 2547-2561.	1.9	52
70	Photolysis frequency of NO2: Measurement and modeling during the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI). Journal of Geophysical Research, 2003, 108, .	3.3	52
71	An improved dual channel PERCA instrument for atmospheric measurements of peroxy radicals. Journal of Environmental Monitoring, 2006, 8, 530.	2.1	51
72	Breathomics for the clinician: the use of volatile organic compounds in respiratory diseases. Thorax, 2021, 76, 514-521.	2.7	51

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73	Title is missing!. Journal of Atmospheric Chemistry, 2002, 41, 163-187.	1.4	50
74	Assessing the near surface sensitivity of SCIAMACHY atmospheric CO₂ retrieved using (FSI) WFM-DOAS. Atmospheric Chemistry and Physics, 2007, 7, 3597-3619.	1.9	50
75	Water uptake is independent of the inferred composition of secondary aerosols derived from multiple biogenic VOCs. Atmospheric Chemistry and Physics, 2013, 13, 11769-11789.	1.9	50
76	Instrument intercomparison of glyoxal, methyl glyoxal and NO₂ under simulated atmospheric conditions. Atmospheric Measurement Techniques, 2015, 8, 1835-1862.	1.2	50
77	Comparison of SCIAMACHY and AIRS CO2measurements over North America during the summer and autumn of 2003. Geophysical Research Letters, 2006, 33, .	1.5	48
78	Gas phase precursors to anthropogenic secondary organic aerosol: Using the Master Chemical Mechanism to probe detailed observations of 1,3,5-trimethylbenzene photo-oxidation. Atmospheric Environment, 2010, 44, 5423-5433.	1.9	48
79	Changes in ambient air quality and atmospheric composition and reactivity in the South East of the UK as a result of the COVID-19 lockdown. Science of the Total Environment, 2021, 755, 142526.	3.9	48
80	International Photolysis Frequency Measurement and Model Intercomparison (IPMMI): Spectral actinic solar flux measurements and modeling. Journal of Geophysical Research, 2003, 108, .	3.3	47
81	Breath analysis by two-dimensional gas chromatography with dual flame ionisation and mass spectrometric detection â€“ Method optimisation and integration within a large-scale clinical study. Journal of Chromatography A, 2019, 1594, 160-172.	1.8	46
82	Kinetics of the reactions of the nitrate radical with a series of halogenobutenes. A study of the effect of substituents on the rate of addition of NO3to alkenes. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 1093-1099.	1.7	45
83	Investigating the use of secondary organic aerosol as seed particles in simulation chamber experiments. Atmospheric Chemistry and Physics, 2011, 11, 5917-5929.	1.9	44
84	Evaluation of biomass burning across North West Europe and its impact on air quality. Atmospheric Environment, 2016, 141, 276-286.	1.9	44
85	Comparisons between SCIAMACHY atmospheric CO₂ retrieved using (FSI) WFM-DOAS to ground based FTIR data and the TM3 chemistry transport model. Atmospheric Chemistry and Physics, 2006, 6, 4483-4498.	1.9	43
86	Effects of halogens on European air-quality. Faraday Discussions, 2017, 200, 75-100.	1.6	43
87	Increased Sensitivity in Proton Transfer Reaction Mass Spectrometry by Incorporation of a Radio Frequency Ion Funnel. Analytical Chemistry, 2012, 84, 5387-5391.	3.2	42
88	Quantifying primary and secondary source contributions to ultrafine particles in the UK urban background. Atmospheric Environment, 2017, 166, 62-78.	1.9	42
89	AtChem (version 1), an open-source box model for the Master Chemical Mechanism. Geoscientific Model Development, 2020, 13, 169-183.	1.3	42
90	Potential for photochemical ozone formation in the troposphere over the North Atlantic as derived from aircraft observations during ACSOE. Journal of Geophysical Research, 2002, 107, ACH 14-1-ACH 14-14.	3.3	41

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91	How important is biogenic isoprene in an urban environment? A study in London and Paris. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	41
92	Intercomparison of aircraft instruments on board the C-130 and Falcon 20 over southern Germany during EXPORT 2000. Atmospheric Chemistry and Physics, 2003, 3, 2127-2138.	1.9	40
93	Improved mid-infrared cross-sections for peroxyacetyl nitrate (PAN) vapour. Atmospheric Chemistry and Physics, 2005, 5, 47-56.	1.9	40
94	Correlations between rate parameters and calculated molecular properties in the reactions of the nitrate radical with alkenes. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3899.	1.7	39
95	In situ ozone production under free tropospheric conditions during FREETEX â€™98 in the Swiss Alps. Journal of Geophysical Research, 2000, 105, 24223-24234.	3.3	39
96	Detection of Chemical Weapon Agents and Simulants Using Chemical Ionization Reaction Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2007, 79, 8359-8366.	3.2	39
97	Radical Product Yields from the Ozonolysis of Short Chain Alkenes under Atmospheric Boundary Layer Conditions. Journal of Physical Chemistry A, 2013, 117, 12468-12483.	1.1	39
98	Title is missing!. Journal of Atmospheric Chemistry, 2000, 37, 1-27.	1.4	37
99	Estimating daily surface NO₂ concentrations from satellite data â€“ a case study over Hong Kong using land use regression models. Atmospheric Chemistry and Physics, 2017, 17, 8211-8230.	1.9	37
100	Rapid uplift of nonmethane hydrocarbons in a cold front over central Europe. Journal of Geophysical Research, 2003, 108, .	3.3	36
101	The atmospheric chemistry of trace gases and particulate matter emitted by different land uses in Borneo. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3177-3195.	1.8	36
102	The reaction O(Â³P) + HOBr: Temperature dependence of the rate constant and importance of the reaction as an HOBr stratospheric loss process. Geophysical Research Letters, 1995, 22, 827-830.	1.5	34
103	Absolute Rate Constant and Product Branching Ratios for the Reaction between H and C2H3 at T = 213 and 298 K. The Journal of Physical Chemistry, 1995, 99, 17151-17159.	2.9	33
104	Photolysis frequency of O3to O(1D): Measurements and modeling during the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI). Journal of Geophysical Research, 2004, 109, .	3.3	33
105	GC-MS analysis of ethanol and other volatile compounds in micro-volume blood samplesâ€”quantifying neonatal exposure. Analytical and Bioanalytical Chemistry, 2013, 405, 4139-4147.	1.9	33
106	Metabolite profiling of the ripening ofÂMangoes Mangifera indica L. cv. â€˜Tommy Atkinsâ€™ by real-time measurement of volatile organic compounds. Metabolomics, 2016, 12, 57.	1.4	33
107	The kinetics of the formation of nitrile compounds in the atmospheres of Titan and Neptune. Journal of Geophysical Research, 1993, 98, 17115-17122.	3.3	32
108	State space analysis of changing seasonal ozone cycles (1988-1997) at Jungfraujoch (3580 m above sea) Tj ETQq0 0 0 rgBT /Overlock 1	3.3	32

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109	New Directions: Fundamentals of atmospheric chemistry: Keeping a three-legged stool balanced. Atmospheric Environment, 2014, 84, 390-391.	1.9	32
110	Sub-micron particle number size distribution characteristics at two urban locations in Leicester. Atmospheric Research, 2017, 194, 1-16.	1.8	32
111	Discharge Flow-Photoionization Mass Spectrometric Study of HOI: Photoionization Efficiency Spectrum and Ionization Energy. The Journal of Physical Chemistry, 1995, 99, 16566-16570.	2.9	31
112	Title is missing!. Journal of Atmospheric Chemistry, 2002, 43, 107-134.	1.4	30
113	Seasonal dependence of peroxy radical concentrations at a Northern hemisphere marine boundary layer site during summer and winter: evidence for radical activity in winter. Atmospheric Chemistry and Physics, 2006, 6, 5415-5433.	1.9	30
114	Online and offline mass spectrometric study of the impact of oxidation and ageing on glyoxal chemistry and uptake onto ammonium sulfate aerosols. Faraday Discussions, 2013, 165, 447.	1.6	30
115	Ranking current and prospective NO 2 pollution mitigation strategies: An environmental and economic modelling investigation in Oxford Street, London. Environmental Pollution, 2017, 225, 587-597.	3.7	30
116	Experimental Determination of the Rate Constant for the Reaction of C2H3 with H2 and Implications for the Partitioning of Hydrocarbons in Atmospheres of the Outer Planets. Icarus, 1995, 116, 415-422.	1.1	29
117	Experimental Determination of the Ionization Energy of IO(X2Î3/2) and Estimations of Î”fHÂ°0(IO+) and PA(IO). The Journal of Physical Chemistry, 1996, 100, 63-68.	2.9	29
118	A Discharge Flow-Photoionization Mass Spectrometric Study of the NO3(2A2') Radical: Photoionization Spectrum, Adiabatic Ionization Energy, and Ground State Symmetry. The Journal of Physical Chemistry, 1994, 98, 10017-10022.	2.9	28
119	The geostationary tropospheric pollution explorer (GeoTROPE) mission: objectives, requirements and mission concept. Advances in Space Research, 2004, 34, 682-687.	1.2	28
120	Concurrent multiaxis differential optical absorption spectroscopy system for the measurement of tropospheric nitrogen dioxide. Applied Optics, 2006, 45, 7504.	2.1	28
121	Night-time radical chemistry during the NAMBLEX campaign. Atmospheric Chemistry and Physics, 2007, 7, 587-598.	1.9	28
122	Chemical composition and source identification of PM10 in five North Western European cities. Atmospheric Research, 2018, 214, 135-149.	1.8	28
123	Seasonal variation of peroxy radicals in the lower free troposphere based on observations from the FREE Tropospheric EXperiments in the Swiss Alps. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	27
124	Emissions of biogenic volatile organic compounds and subsequent photochemical production of secondary organic aerosol in mesocosm studies of temperate and tropical plant species. Atmospheric Chemistry and Physics, 2014, 14, 12781-12801.	1.9	27
125	Hypobromous acid kinetics: reactions of halogen atoms, oxygen atoms, nitrogen atoms, and nitric oxide with HOBr. The Journal of Physical Chemistry, 1993, 97, 11699-11705.	2.9	26
126	The reaction between N(4S) and C2H3: Rate constant and primary reaction channels. Journal of Chemical Physics, 1996, 104, 9808-9815.	1.2	26

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127	Airborne measurements of peroxy radicals using the PERCA technique. Journal of Environmental Monitoring, 2003, 5, 75-83.	2.1	26
128	Alkyl nitrate photochemistry during the tropospheric organic chemistry experiment. Atmospheric Environment, 2010, 44, 773-785.	1.9	26
129	Lung deposited surface area in Leicester urban background site/UK: Sources and contribution of new particle formation. Atmospheric Environment, 2017, 151, 94-107.	1.9	26
130	A discharge flowâ€photoionization mass spectrometric study of HOBr(Xâ€‰1Aâ€™): Photoion yield spectrum, ionization energy, and thermochemistry. Journal of Chemical Physics, 1994, 100, 1902-1907.	1.2	25
131	Photoionization-Efficiency Spectrum and Ionization Energy of the Cyanomethyl Radical CH2CN and Products of the N(4S) + C2H3 Reaction. Journal of Physical Chemistry A, 1998, 102, 846-851.	1.1	25
132	On the relationship of HO2+ RO2withj(O1D) during the Free Tropospheric Experiment (FREETEX '96) at the Jungfraujoch Observatory(3580 m above sea level) in the Swiss Alps. Journal of Geophysical Research, 1999, 104, 26913-26925.	3.3	25
133	Influence of clouds on the spectral actinic flux density in the lower troposphere (INSPECTRO): overview of the field campaigns. Atmospheric Chemistry and Physics, 2008, 8, 1789-1812.	1.9	24
134	Peroxy radical partitioning during the AMMA radical intercomparison exercise. Atmospheric Chemistry and Physics, 2010, 10, 10621-10638.	1.9	24
135	Air quality and climate â€“ synergies and trade-offs. Environmental Sciences: Processes and Impacts, 2013, 15, 1315.	1.7	24
136	Assessment of breath volatile organic compounds in acute cardiorespiratory breathlessness: a protocol describing a prospective real-world observational study. BMJ Open, 2019, 9, e025486.	0.8	24
137	The Hayek Oscillator: A New Method of Ventilation in Microlaryngeal Surgery. Annals of Otology, Rhinology and Laryngology, 1993, 102, 455-458.	0.6	23
138	Photoionization Efficiency Spectrum, Ionization Energy, and Heat of Formation of Br2O. The Journal of Physical Chemistry, 1996, 100, 12199-12203.	2.9	23
139	Attenuation of spectral actinic flux and photolysis frequencies at the surface through homogenous cloud fields. Journal of Geophysical Research, 2004, 109, .	3.3	23
140	Interpreting the variability of space-borne CO₂ column-averaged volume mixing ratios over North America using a chemistry transport model. Atmospheric Chemistry and Physics, 2008, 8, 5855-5868.	1.9	23
141	A smog chamber comparison of a microfluidic derivatisation measurement of gas-phase glyoxal and methylglyoxal with other analytical techniques. Atmospheric Measurement Techniques, 2014, 7, 373-389.	1.2	23
142	Validation of an assay for the determination of levoglucosan and associated monosaccharide anhydrides for the quantification of wood smoke in atmospheric aerosol. Analytical and Bioanalytical Chemistry, 2014, 406, 5283-5292.	1.9	23
143	Metabolite profiling of Clostridium difficile ribotypes using small molecular weight volatile organic compounds. Metabolomics, 2015, 11, 251-260.	1.4	23
144	A discharge-flow photoionization mass-spectrometric study of the BrO (X 2Î) radical. Photoionization spectrum and ionization energy. Chemical Physics Letters, 1993, 211, 416-420.	1.2	22

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145	Real-time multi-marker measurement of organic compounds in human breath: towards fingerprinting breath. Journal of Breath Research, 2013, 7, 017112.	1.5	21
146	Fast fingerprinting of arson accelerants by proton transfer reaction time-of-flight mass spectrometry. International Journal of Mass Spectrometry, 2007, 263, 222-232.	0.7	20
147	A new technique for the selective measurement of atmospheric peroxy radical concentrations of HO₂ and RO₂ using a denuding method. Atmospheric Measurement Techniques, 2010, 3, 1547-1554.	1.2	20
148	Automating and Extending Comprehensive Two-Dimensional Gas Chromatography Data Processing by Interfacing Open-Source and Commercial Software. Analytical Chemistry, 2020, 92, 13953-13960.	3.2	20
149	Discharge Flow-Photoionization Mass Spectrometric Study of HNO:Â Photoionization Efficiency Spectrum and Ionization Energy and Proton Affinity of NO. Journal of Physical Chemistry A, 1997, 101, 4035-4041.	1.1	19
150	Spatially resolved measurements of nitrogen dioxide in an urban environment using concurrent multi-axis differential optical absorption spectroscopy. Atmospheric Chemistry and Physics, 2007, 7, 4751-4762.	1.9	19
151	Aldehyde and ketone discrimination and quantification using two-stage proton transfer reaction mass spectrometry. International Journal of Mass Spectrometry, 2008, 278, 15-19.	0.7	19
152	Measurements of iodine monoxide at a semi polluted coastal location. Atmospheric Chemistry and Physics, 2010, 10, 3645-3663.	1.9	19
153	Observations of the Release of Non-methane Hydrocarbons from Fractured Shale. Environmental Science & Technology, 2014, 48, 8891-8896.	4.6	19
154	Seasonal and geographical variability of nitryl chloride and its precursors in Northern Europe. Atmospheric Science Letters, 2018, 19, e844.	0.8	19
155	Steady-state modelling of hydroxyl radical concentrations at Mace Head during the EASE '97 campaign, May 1997. Atmospheric Environment, 2001, 35, 515-524.	1.9	18
156	The geostationary scanning imaging absorption spectrometer (GeoSCIA) as part of the geostationary tropospheric pollution explorer (GeoTROPE) mission: requirements, concepts and capabilities. Advances in Space Research, 2004, 34, 694-699.	1.2	17
157	A Comparison of Total Column Ozone Values Derived from the Global Ozone Monitoring Experiment (GOME), the Tiros Operational Vertical Sounder (TOVS), and the Total Ozone Mapping Spectrometer (TOMS). Journals of the Atmospheric Sciences, 2001, 58, 1103-1116.	0.6	15
158	High-resolution measurements from the airborne Atmospheric Nitrogen Dioxide Imager (ANDI). Atmospheric Measurement Techniques, 2015, 8, 4735-4754.	1.2	15
159	Enhanced wintertime oxidation of VOCs via sustained radical sources in the urban atmosphere. Environmental Pollution, 2021, 274, 116563.	3.7	15
160	Differences in the composition of organic aerosols between winter and summer in Beijing: a study by direct-infusion ultrahigh-resolution mass spectrometry. Atmospheric Chemistry and Physics, 2020, 20, 13303-13318.	1.9	15
161	A discharge flow-photoionization mass spectrometric study of the FO(X 2Îi) radical. Chemical Physics Letters, 1994, 229, 377-382.	1.2	14
162	The geostationary scanning imaging absorption spectrometer (GeoSCIA) mission: requirements and capabilities. Advances in Space Research, 2002, 29, 1849-1859.	1.2	14

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163	Essential medicines containing ethanol elevate blood acetaldehyde concentrations in neonates. European Journal of Pediatrics, 2016, 175, 841-847.	1.3	14
164	The spatio-temporal evolution of black carbon in the North-West European â€˜air pollution hotspotâ€™. Atmospheric Environment, 2020, 243, 117874.	1.9	14
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