Lucy Carpenter

List of Publications by Year
in descending order

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144 papers	9,981 citations	34016 52 h-index	45213 90 g-index
209 all docs	209 docs citations	209 times ranked	6936 citing authors

#	Article	IF	Citations
1	Halogens in Seaweeds: Biological and Environmental Significance. Phycology, 2022, 2, 132-171.	1.7	12
2	Observations and modelling of glyoxal in the tropical Atlantic marine boundary layer. Atmospheric Chemistry and Physics, 2022, 22, 5535-5557.	1.9	3
3	Selected Ion Flow Tube â€“ Mass Spectrometry (SIFT-MS) study of the reactions of H3O+, NO+ and O2+ with a range of oxygenated volatile organic carbons (OVOCs). International Journal of Mass Spectrometry, 2022, 479, 116892.	0.7	3
4	Ozone production and precursor emission from wildfires in Africa. Environmental Science Atmospheres, 2021, 1, 524-542.	0.9	4
5	Marine iodine emissions in a changing world. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200824.	1.0	41
6	Long-term NO_{<i>x</i>} measurements in the remote marine tropical troposphere. Atmospheric Measurement Techniques, 2021, 14, 3071-3085.	1.2	10
7	Is the ocean surface a source of nitrous acid (HONO) in the marine boundary layer?. Atmospheric Chemistry and Physics, 2021, 21, 18213-18225.	1.9	14
8	The MILAN Campaign: Studying Diel Light Effects on the Airâ€“Sea Interface. Bulletin of the American Meteorological Society, 2020, 101, E146-E166.	1.7	14
9	Influence of the Sea Surface Microlayer on Oceanic Iodine Emissions. Environmental Science & Technology, 2020, 54, 13228-13237.	4.6	11
10	A Global Model for Iodine Speciation in the Upper Ocean. Global Biogeochemical Cycles, 2020, 34, e2019GB006467.	1.9	16
11	Surface Inorganic Iodine Speciation in the Indian and Southern Oceans From 12Â°N to 70Â°S. Frontiers in Marine Science, 2020, 7, .	1.2	8
12	Transport of short-lived halocarbons to the stratosphere over the Pacific Ocean. Atmospheric Chemistry and Physics, 2020, 20, 1163-1181.	1.9	5
13	Influences of oceanic ozone deposition on tropospheric photochemistry. Atmospheric Chemistry and Physics, 2020, 20, 4227-4239.	1.9	28
14	Environmental occurrence, fate, effects, and remediation of halogenated (semi)volatile organic compounds. Environmental Sciences: Processes and Impacts, 2020, 22, 465-471.	1.7	11
15	A Synthesis Inversion to Constrain Global Emissions of Two Very Short Lived Chlorocarbons: Dichloromethane, and Perchloroethylene. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031818.	1.2	18
16	Estimation of reactive inorganic iodine fluxes in the Indian and Southern Ocean marine boundary layer. Atmospheric Chemistry and Physics, 2020, 20, 12093-12114.	1.9	14
17	Ozone deposition to a coastal sea: comparison of eddy covariance observations with reactive airâ€“sea exchange models. Atmospheric Measurement Techniques, 2020, 13, 6915-6931.	1.2	7
18	Importance of reactive halogens in the tropical marine atmosphere: aÂregional modelling study using WRF-Chem. Atmospheric Chemistry and Physics, 2019, 19, 3161-3189.	1.9	36

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19	Understanding Iodine Chemistry Over the Northern and Equatorial Indian Ocean. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8104-8118.	1.2	11
20	Evaluating Oceanic Uptake of Atmospheric CCl4: A Combined Analysis of Model Simulations and Observations. Geophysical Research Letters, 2019, 46, 472-482.	1.5	1
21	Global sea-surface iodide observations, 1967â€“2018. Scientific Data, 2019, 6, 286.	2.4	25
22	A machine-learning-based global sea-surface iodide distribution. Earth System Science Data, 2019, 11, 1239-1262.	3.7	31
23	Discrepancy between simulated and observed ethane and propane levels explained by underestimated fossil emissions. Nature Geoscience, 2018, 11, 178-184.	5.4	56
24	A self-consistent, multivariate method for the determination of gas-phase rate coefficients, applied to reactions of atmospheric VOCs and the hydroxyl radical. Atmospheric Chemistry and Physics, 2018, 18, 4039-4054.	1.9	9
25	Water-Soluble Organic Composition of the Arctic Sea Surface Microlayer and Association with Ice Nucleation Ability. Environmental Science & Technology, 2018, 52, 1817-1826.	4.6	23
26	Impacts of bromine and iodine chemistry on tropospheric OH and HO₂: comparing observations with box and global model perspectives. Atmospheric Chemistry and Physics, 2018, 18, 3541-3561.	1.9	24
27	Emission of volatile halogenated compounds, speciation and localization of bromine and iodine in the brown algal genome model Ectocarpus siliculosus. Journal of Biological Inorganic Chemistry, 2018, 23, 1119-1128.	1.1	24
28	Surface fluxes of bromoform and dibromomethane over the tropical western Pacific inferred from airborne in situ measurements. Atmospheric Chemistry and Physics, 2018, 18, 14787-14798.	1.9	2
29	Alpine ice evidence of a three-fold increase in atmospheric iodine deposition since 1950 in Europe due to increasing oceanic emissions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12136-12141.	3.3	53
30	Quantifying the vertical transport of CHBr₃ and CH₂Br₂ over the western Pacific. Atmospheric Chemistry and Physics, 2018, 18, 13135-13153.	1.9	10
31	Global impact of nitrate photolysis in sea-salt aerosol on NO_{<i>x</i>}, OH, and O₃ in the marine boundary layer. Atmospheric Chemistry and Physics, 2018, 18, 11185-11203.	1.9	62
32	Observations of ozone-poor air in the tropical tropopause layer. Atmospheric Chemistry and Physics, 2018, 18, 5157-5171.	1.9	11
33	Coordinated Airborne Studies in the Tropics (CAST). Bulletin of the American Meteorological Society, 2017, 98, 145-162.	1.7	25
34	A nocturnal atmospheric loss of CH2I2 in the remote marine boundary layer. Journal of Atmospheric Chemistry, 2017, 74, 145-156.	1.4	4
35	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. Bulletin of the American Meteorological Society, 2017, 98, 106-128.	1.7	50
36	The Essential Role for Laboratory Studies in Atmospheric Chemistry. Environmental Science & Technology, 2017, 51, 2519-2528.	4.6	75

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37	VOC emission rates over London and South East England obtained by airborne eddy covariance. Faraday Discussions, 2017, 200, 599-620.	1.6	23
38	Enhanced ozone loss by active inorganic bromine chemistry in the tropical troposphere. Atmospheric Environment, 2017, 155, 21-28.	1.9	24
39	Effects of halogens on European air-quality. Faraday Discussions, 2017, 200, 75-100.	1.6	43
40	Potential controls of isoprene in the surface ocean. Global Biogeochemical Cycles, 2017, 31, 644-662.	1.9	50
41	Basin-Scale Observations of Monoterpenes in the Arctic and Atlantic Oceans. Environmental Science & Technology, 2017, 51, 10449-10458.	4.6	16
42	Atmospheric chemistry and the biosphere: general discussion. Faraday Discussions, 2017, 200, 195-228.	1.6	1
43	Atmospheric chemistry processes: general discussion. Faraday Discussions, 2017, 200, 353-378.	1.6	0
44	The air we breathe: Past, present, and future: general discussion. Faraday Discussions, 2017, 200, 501-527.	1.6	1
45	New tools for atmospheric chemistry: general discussion. Faraday Discussions, 2017, 200, 663-691.	1.6	0
46	Highlights from the Faraday Discussion meeting â€œAtmospheric chemistry in the Anthropoceneâ€, York, 2017. Chemical Communications, 2017, 53, 12494-12498.	2.2	0
47	Introduction to special issue on natural halocarbons in the atmosphere. Journal of Atmospheric Chemistry, 2017, 74, 141-143.	1.4	6
48	Electrochemical ozone sensors: A miniaturised alternative for ozone measurements in laboratory experiments and air-quality monitoring. Sensors and Actuators B: Chemical, 2017, 240, 829-837.	4.0	84
49	Four years (2011â€“2015) of total gaseous mercury measurements from the Cape Verde Atmospheric Observatory. Atmospheric Chemistry and Physics, 2017, 17, 5393-5406.	1.9	8
50	Halogen chemistry reduces tropospheric O₃ radiative forcing. Atmospheric Chemistry and Physics, 2017, 17, 1557-1569.	1.9	43
51	Evidence for renoxification in the tropical marine boundary layer. Atmospheric Chemistry and Physics, 2017, 17, 4081-4092.	1.9	47
52	HONO measurement by differential photolysis. Atmospheric Measurement Techniques, 2016, 9, 2483-2495.	1.2	15
53	A comparison of very short lived halocarbon (VSLS) and DMS aircraft measurements in the tropical west Pacific from CAST, ATTREX and CONTRAST. Atmospheric Measurement Techniques, 2016, 9, 5213-5225.	1.2	27
54	Global modeling of tropospheric iodine aerosol. Geophysical Research Letters, 2016, 43, 10012-10019.	1.5	17

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55	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem. Atmospheric Chemistry and Physics, 2016, 16, 12239-12271.	1.9	231
56	A multi-model intercomparison of halogenated very short-lived substances (TransCom-VSLS): linking oceanic emissions and tropospheric transport for a reconciled estimate of the stratospheric source gas injection of bromine. Atmospheric Chemistry and Physics, 2016, 16, 9163-9187.	1.9	51
57	Iodine's impact on tropospheric oxidants: aÂglobal model study in GEOS-Chem. Atmospheric Chemistry and Physics, 2016, 16, 1161-1186.	1.9	116
58	Interferences in photolytic NO₂ measurements: explanation for an apparent missing oxidant?. Atmospheric Chemistry and Physics, 2016, 16, 4707-4724.	1.9	71
59	Reversal of global atmospheric ethane and propane trends largely due to US oil and natural gas production. Nature Geoscience, 2016, 9, 490-495.	5.4	149
60	A pervasive role for biomass burning in tropical high ozone/low water structures. Nature Communications, 2016, 7, 10267.	5.8	33
61	A mechanism for biologically induced iodine emissions from sea ice. Atmospheric Chemistry and Physics, 2015, 15, 9731-9746.	1.9	39
62	Iodine observed in new particle formation events in the Arctic atmosphere during ACCACIA. Atmospheric Chemistry and Physics, 2015, 15, 5599-5609.	1.9	102
63	Technical Note: A fully automated purge and trap GC-MS system for quantification of volatile organic compound (VOC) fluxes between the ocean and atmosphere. Ocean Science, 2015, 11, 313-321.	1.3	24
64	Chemistry and Release of Gases from the Surface Ocean. Chemical Reviews, 2015, 115, 4015-4034.	23.0	92
65	Microfluidic derivatisation technique for determination of gaseous molecular iodine with GCâ€“MS. Talanta, 2015, 137, 214-219.	2.9	4
66	The distribution of iodide at the sea surface. Environmental Sciences: Processes and Impacts, 2014, 16, 1841-1859.	1.7	98
67	Halocarbons associated with Arctic sea ice. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 92, 162-175.	0.6	4
68	Emission of iodine-containing volatiles by selected microalgae species. Atmospheric Chemistry and Physics, 2014, 14, 13327-13335.	1.9	8
69	A laboratory characterisation of inorganic iodine emissions from the sea surface: dependence on oceanic variables and parameterisation for global modelling. Atmospheric Chemistry and Physics, 2014, 14, 5841-5852.	1.9	111
70	Radical chemistry at night: comparisons between observed and modelled HO_x, NO₃ and N₂O₅ during the RONOCO project. Atmospheric Chemistry and Physics, 2014, 14, 1299-1321.	1.9	42
71	Perspectives and Integration in SOLAS Science. Springer Earth System Sciences, 2014, , 247-306.	0.1	2
72	Modification of Ozone Deposition and I₂ Emissions at the Airâ€“Aqueous Interface by Dissolved Organic Carbon of Marine Origin. Environmental Science & Technology, 2013, 47, 10947-10954.	4.6	26

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73	Atmospheric iodine levels influenced by sea surface emissions of inorganic iodine. Nature Geoscience, 2013, 6, 108-111.	5.4	256
74	In vivo speciation studies and antioxidant properties of bromine in Laminaria digitata reinforce the significance of iodine accumulation for kelps. Journal of Experimental Botany, 2013, 64, 2653-2664.	2.4	49
75	The influence of biomass burning on the global distribution of selected non-methane organic compounds. Atmospheric Chemistry and Physics, 2013, 13, 851-867.	1.9	68
76	Global sea-to-air flux climatology for bromoform, dibromomethane and methyl iodide. Atmospheric Chemistry and Physics, 2013, 13, 8915-8934.	1.9	131
77	Aircraft measurements of very shortâ€lived halocarbons over the tropical Atlantic Ocean. Geophysical Research Letters, 2013, 40, 1005-1010.	1.5	7
78	Seasonal observations of OH and HO₂ in the remote tropical marine boundary layer. Atmospheric Chemistry and Physics, 2012, 12, 2149-2172.	1.9	42
79	Ocean-atmosphere trace gas exchange. Chemical Society Reviews, 2012, 41, 6473.	18.7	206
80	Multiannual Observations of Acetone, Methanol, and Acetaldehyde in Remote Tropical Atlantic Air: Implications for Atmospheric OVOC Budgets and Oxidative Capacity. Environmental Science & Technology, 2012, 46, 11028-11039.	4.6	70
81	Atmospheric Chemistry of Iodine. Chemical Reviews, 2012, 112, 1773-1804.	23.0	482
82	Particle fluxes and condensational uptake over sea ice during COBRA. Journal of Geophysical Research, 2012, 117, .	3.3	4
83	Energy and ozone fluxes over sea ice. Atmospheric Environment, 2012, 47, 218-225.	1.9	9
84	HOCl and Cl₂ observations in marine air. Atmospheric Chemistry and Physics, 2011, 11, 7617-7628.	1.9	109
85	Hydrogen oxide photochemistry in the northern Canadian spring time boundary layer. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	11
86	Thermal evolution of diffusive transport of atmospheric halocarbons through artificial seaâ€“ice. Atmospheric Environment, 2011, 45, 6393-6402.	1.9	19
87	Commemorating Two Centuries of Iodine Research: An Interdisciplinary Overview of Current Research. Angewandte Chemie - International Edition, 2011, 50, 11598-11620.	7.2	299
88	Results from the first national UK inter-laboratory calibration for very short-lived halocarbons. Atmospheric Measurement Techniques, 2011, 4, 865-874.	1.2	21
89	Reactive Halogens in the Marine Boundary Layer (RHaMBLe): the tropical North Atlantic experiments. Atmospheric Chemistry and Physics, 2010, 10, 1031-1055.	1.9	66
90	The chemistry of OH and HO₂ radicals in the boundary layer over the tropical Atlantic Ocean. Atmospheric Chemistry and Physics, 2010, 10, 1555-1576.	1.9	156

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91	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
92	Technical Note: Ensuring consistent, global measurements of very short-lived halocarbon gases in the ocean and atmosphere. Atmospheric Chemistry and Physics, 2010, 10, 327-330.	1.9	22
93	Measurement and modelling of tropospheric reactive halogen species over the tropical Atlantic Ocean. Atmospheric Chemistry and Physics, 2010, 10, 4611-4624.	1.9	161
94	In situ measurements of molecular iodine in the marine boundary layer: the link to macroalgae and the implications for O₃, IO, OIO and NO_x. Atmospheric Chemistry and Physics, 2010, 10, 4823-4833.	1.9	53
95	Seasonal and interannual variation of dissolved iodine speciation at a coastal Antarctic site. Marine Chemistry, 2010, 118, 171-181.	0.9	49
96	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
97	A comparison of spectrophotometric and denuder based approaches for the determination of gaseous molecular iodine. Atmospheric Measurement Techniques, 2010, 3, 177-185.	1.2	11
98	Evidence of reactive iodine chemistry in the Arctic boundary layer. Journal of Geophysical Research, 2010, 115, .	3.3	76
99	Quantifying the contribution of marine organic gases to atmospheric iodine. Geophysical Research Letters, 2010, 37, .	1.5	105
100	A Relaxed Eddy Accumulation (REA)-GC/MS system for the determination of halocarbon fluxes. Atmospheric Measurement Techniques, 2009, 2, 437-448.	1.2	11
101	Yearâ€round measurements of nitrogen oxides and ozone in the tropical North Atlantic marine boundary layer. Journal of Geophysical Research, 2009, 114, .	3.3	82
102	Intraâ€annual cycles of NMVOC in the tropical marine boundary layer and their use for interpreting seasonal variability in CO. Journal of Geophysical Research, 2009, 114, .	3.3	33
103	Air-sea fluxes of biogenic bromine from the tropical and North Atlantic Ocean. Atmospheric Chemistry and Physics, 2009, 9, 1805-1816.	1.9	91
104	Coastal measurements of short-lived reactive iodocarbons and bromocarbons at Roscoff, Brittany during the RHaMBLe campaign. Atmospheric Chemistry and Physics, 2009, 9, 8757-8769.	1.9	32
105	Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. Nature, 2008, 453, 1232-1235.	13.7	432
106	Iodide accumulation provides kelp with an inorganic antioxidant impacting atmospheric chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6954-6958.	3.3	318
107	Halogens and their role in polar boundary-layer ozone depletion. Atmospheric Chemistry and Physics, 2007, 7, 4375-4418.	1.9	593
108	Chemical destruction of CH₃I, C₂H₅I, 1â€C₃H₇I, and 2â€C₃H₇I in saltwater. Geophysical Research Letters, 2007, 34, .	1.5	7

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109	Bromoform in tropical Atlantic air from 25Â°N to 25Â°S. Geophysical Research Letters, 2007, 34, .	1.5	27
110	Structural Analysis of Oligomeric Molecules Formed from the Reaction Products of Oleic Acid Ozonolysis. Environmental Science & Technology, 2006, 40, 6674-6681.	4.6	69
111	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
112	Measurement and modelling of air pollution and atmospheric chemistry in the U.K. West Midlands conurbation: Overview of the PUMA Consortium project. Science of the Total Environment, 2006, 360, 5-25.	3.9	109
113	Atmospheric bromoform at Mace Head, Ireland: seasonality and evidence for a peatland source. Atmospheric Chemistry and Physics, 2005, 5, 2927-2934.	1.9	27
114	Sources and sinks of acetone, methanol, and acetaldehyde in North Atlantic marine air. Atmospheric Chemistry and Physics, 2005, 5, 1963-1974.	1.9	112
115	Urban Atmospheric Chemistry During the PUMA Campaign 1: Comparison of Modelled OH and HO2 Concentrations with Measurements. Journal of Atmospheric Chemistry, 2005, 52, 143-164.	1.4	82
116	Iodine and Halocarbon Response of Laminaria digitata to Oxidative Stress and Links to Atmospheric New Particle Production. Environmental Chemistry, 2005, 2, 282.	0.7	126
117	Abiotic Source of Reactive Organic Halogens in the Sub-Arctic Atmosphere?. Environmental Science & Technology, 2005, 39, 8812-8816.	4.6	62
118	Solar Photolysis of CH2I2, CH2ICl, and CH2IBr in Water, Saltwater, and Seawater. Environmental Science & Technology, 2005, 39, 6130-6137.	4.6	84
119	Improved model predictions of HO2with gas to particle mass transfer rates calculated using aerosol number size distributions. Journal of Geophysical Research, 2005, 110, .	3.3	25
120	Automated measurement and calibration of reactive volatile halogenated organic compounds in the atmosphere. Analyst, The, 2004, 129, 634.	1.7	39
121	Uptake of methanol to the North Atlantic Ocean surface. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	51
122	High levels of the hydroxyl radical in the winter urban troposphere. Geophysical Research Letters, 2004, 31, .	1.5	94
123	Outdoor air pollution: the effects of ozone. Lancet, The, 2004, 364, 663.	6.3	2
124	OH and HO₂ chemistry in clean marine air during SOAPEX-2. Atmospheric Chemistry and Physics, 2004, 4, 839-856.	1.9	92
125	Iodine in the Marine Boundary Layer. Chemical Reviews, 2003, 103, 4953-4962.	23.0	269
126	Rapid uplift of nonmethane hydrocarbons in a cold front over central Europe. Journal of Geophysical Research, 2003, 108, .	3.3	36

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127	Marine organohalogens in the atmosphere over the Atlantic and Southern Oceans. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	92
128	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
129	Nonmethane hydrocarbons in Southern Ocean boundary layer air. Journal of Geophysical Research, 2001, 106, 4987-4994.	3.3	53
130	Coastal zone production of IO precursors: a 2-dimensional study. Atmospheric Chemistry and Physics, 2001, 1, 9-18.	1.9	34
131	Novel biogenic iodine-containing trihalomethanes and other short-lived halocarbons in the coastal east Atlantic. Global Biogeochemical Cycles, 2000, 14, 1191-1204.	1.9	163
132	On temperate sources of bromoform and other reactive organic bromine gases. Journal of Geophysical Research, 2000, 105, 20539-20547.	3.3	229
133	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
134	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
135	A modeling study of iodine chemistry in the marine boundary layer. Journal of Geophysical Research, 2000, 105, 14371-14385.	3.3	252
136	Bromoform as a source of stratospheric bromine. Geophysical Research Letters, 2000, 27, 2081-2084.	1.5	82
137	Title is missing!. Journal of Atmospheric Chemistry, 1999, 33, 111-128.	1.4	18
138	Short-lived alkyl iodides and bromides at Mace Head, Ireland: Links to biogenic sources and halogen oxide production. Journal of Geophysical Research, 1999, 104, 1679-1689.	3.3	330
139	Fundamental ozone photochemistry in the remote marine boundary layer the soapex experiment, measurement and theory. Atmospheric Environment, 1998, 32, 3647-3664.	1.9	85
140	Simultaneous observations of nitrate and peroxy radicals in the marine boundary layer. Journal of Geophysical Research, 1997, 102, 18917-18933.	3.3	98
141	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
142	A calibrated peroxy radical chemical amplifier for ground-based tropospheric measurements. Journal of Geophysical Research, 1997, 102, 25405-25416.	3.3	68
143	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
144	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