Lucy Carpenter

List of Publications by Year
in descending order

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 and their role in polar boundary-layer ozone depletion. Atmospheric Chemistry and Physics, 2007, 7, 4375-4418.	1.9	593
2	Atmospheric Chemistry of Iodine. Chemical Reviews, 2012, 112, 1773-1804.	23.0	482
3	Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. Nature, 2008, 453, 1232-1235.	13.7	432
4	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
5	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
6	Commemorating Two Centuries of Iodine Research: An Interdisciplinary Overview of Current Research. Angewandte Chemie - International Edition, 2011, 50, 11598-11620.	7.2	299
7	Iodine in the Marine Boundary Layer. Chemical Reviews, 2003, 103, 4953-4962.	23.0	269
8	Atmospheric iodine levels influenced by sea surface emissions of inorganic iodine. Nature Geoscience, 2013, 6, 108-111.	5.4	256
9	A modeling study of iodine chemistry in the marine boundary layer. Journal of Geophysical Research, 2000, 105, 14371-14385.	3.3	252
10	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
11	On temperate sources of bromoform and other reactive organic bromine gases. Journal of Geophysical Research, 2000, 105, 20539-20547.	3.3	229
12	Ocean-atmosphere trace gas exchange. Chemical Society Reviews, 2012, 41, 6473.	18.7	206
13	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
14	Measurement and modelling of tropospheric reactive halogen species over the tropical Atlantic Ocean. Atmospheric Chemistry and Physics, 2010, 10, 4611-4624.	1.9	161
15	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
16	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
17	Global sea-to-air flux climatology for bromoform, dibromomethane and methyl iodide. Atmospheric Chemistry and Physics, 2013, 13, 8915-8934.	1.9	131
18	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

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19	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
20	Iodine's impact on tropospheric oxidants: aÂglobal model study in GEOS-Chem. Atmospheric Chemistry and Physics, 2016, 16, 1161-1186.	1.9	116
21	Sources and sinks of acetone, methanol, and acetaldehyde in North Atlantic marine air. Atmospheric Chemistry and Physics, 2005, 5, 1963-1974.	1.9	112
22	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
23	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
24	HOCl and Cl₂ observations in marine air. Atmospheric Chemistry and Physics, 2011, 11, 7617-7628.	1.9	109
25	Quantifying the contribution of marine organic gases to atmospheric iodine. Geophysical Research Letters, 2010, 37, .	1.5	105
26	Iodine observed in new particle formation events in the Arctic atmosphere during ACCACIA. Atmospheric Chemistry and Physics, 2015, 15, 5599-5609.	1.9	102
27	Simultaneous observations of nitrate and peroxy radicals in the marine boundary layer. Journal of Geophysical Research, 1997, 102, 18917-18933.	3.3	98
28	The distribution of iodide at the sea surface. Environmental Sciences: Processes and Impacts, 2014, 16, 1841-1859.	1.7	98
29	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
30	High levels of the hydroxyl radical in the winter urban troposphere. Geophysical Research Letters, 2004, 31, .	1.5	94
31	Marine organohalogens in the atmosphere over the Atlantic and Southern Oceans. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	92
32	OH and HO₂ chemistry in clean marine air during SOAPEX-2. Atmospheric Chemistry and Physics, 2004, 4, 839-856.	1.9	92
33	Chemistry and Release of Gases from the Surface Ocean. Chemical Reviews, 2015, 115, 4015-4034.	23.0	92
34	Air-sea fluxes of biogenic bromine from the tropical and North Atlantic Ocean. Atmospheric Chemistry and Physics, 2009, 9, 1805-1816.	1.9	91
35	Fundamental ozone photochemistry in the remote marine boundary layer the soapex experiment, measurement and theory. Atmospheric Environment, 1998, 32, 3647-3664.	1.9	85
36	Solar Photolysis of CH2I2, CH2ICl, and CH2IBr in Water, Saltwater, and Seawater. Environmental Science & Technology, 2005, 39, 6130-6137.	4.6	84

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37	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
38	Bromoform as a source of stratospheric bromine. Geophysical Research Letters, 2000, 27, 2081-2084.	1.5	82
39	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
40	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
41	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
42	Evidence of reactive iodine chemistry in the Arctic boundary layer. Journal of Geophysical Research, 2010, 115, .	3.3	76
43	The Essential Role for Laboratory Studies in Atmospheric Chemistry. Environmental Science & Technology, 2017, 51, 2519-2528.	4.6	75
44	Interferences in photolytic NO₂ measurements: explanation for an apparent missing oxidant?. Atmospheric Chemistry and Physics, 2016, 16, 4707-4724.	1.9	71
45	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
46	Structural Analysis of Oligomeric Molecules Formed from the Reaction Products of Oleic Acid Ozonolysis. Environmental Science & Technology, 2006, 40, 6674-6681.	4.6	69
47	A calibrated peroxy radical chemical amplifier for ground-based tropospheric measurements. Journal of Geophysical Research, 1997, 102, 25405-25416.	3.3	68
48	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
49	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
50	Reactive Halogens in the Marine Boundary Layer (RHaMBLe): the tropical North Atlantic experiments. Atmospheric Chemistry and Physics, 2010, 10, 1031-1055.	1.9	66
51	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
52	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
53	Abiotic Source of Reactive Organic Halogens in the Sub-Arctic Atmosphere?. Environmental Science & Technology, 2005, 39, 8812-8816.	4.6	62
54	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

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55	Discrepancy between simulated and observed ethane and propane levels explained by underestimated fossil emissions. Nature Geoscience, 2018, 11, 178-184.	5.4	56
56	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
57	Nonmethane hydrocarbons in Southern Ocean boundary layer air. Journal of Geophysical Research, 2001, 106, 4987-4994.	3.3	53
58	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
59	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
60	Uptake of methanol to the North Atlantic Ocean surface. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	51
61	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
62	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. Bulletin of the American Meteorological Society, 2017, 98, 106-128.	1.7	50
63	Potential controls of isoprene in the surface ocean. Global Biogeochemical Cycles, 2017, 31, 644-662.	1.9	50
64	Seasonal and interannual variation of dissolved iodine speciation at a coastal Antarctic site. Marine Chemistry, 2010, 118, 171-181.	0.9	49
65	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
66	Evidence for renoxification in the tropical marine boundary layer. Atmospheric Chemistry and Physics, 2017, 17, 4081-4092.	1.9	47
67	Effects of halogens on European air-quality. Faraday Discussions, 2017, 200, 75-100.	1.6	43
68	Halogen chemistry reduces tropospheric O₃ radiative forcing. Atmospheric Chemistry and Physics, 2017, 17, 1557-1569.	1.9	43
69	Seasonal observations of OH and HO₂ in the remote tropical marine boundary layer. Atmospheric Chemistry and Physics, 2012, 12, 2149-2172.	1.9	42
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	Marine iodine emissions in a changing world. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200824.	1.0	41
72	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

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73	Automated measurement and calibration of reactive volatile halogenated organic compounds in the atmosphere. Analyst, The, 2004, 129, 634.	1.7	39
74	A mechanism for biologically induced iodine emissions from sea ice. Atmospheric Chemistry and Physics, 2015, 15, 9731-9746.	1.9	39
75	Rapid uplift of nonmethane hydrocarbons in a cold front over central Europe. Journal of Geophysical Research, 2003, 108, .	3.3	36
76	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
77	Coastal zone production of IO precursors: a 2-dimensional study. Atmospheric Chemistry and Physics, 2001, 1, 9-18.	1.9	34
78	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
79	A pervasive role for biomass burning in tropical high ozone/low water structures. Nature Communications, 2016, 7, 10267.	5.8	33
80	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
81	A machine-learning-based global sea-surface iodide distribution. Earth System Science Data, 2019, 11, 1239-1262.	3.7	31
82	Influences of oceanic ozone deposition on tropospheric photochemistry. Atmospheric Chemistry and Physics, 2020, 20, 4227-4239.	1.9	28
83	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
84	Atmospheric bromoform at Mace Head, Ireland: seasonality and evidence for a peatland source. Atmospheric Chemistry and Physics, 2005, 5, 2927-2934.	1.9	27
85	Bromoform in tropical Atlantic air from 25Â°N to 25Â°S. Geophysical Research Letters, 2007, 34, .	1.5	27
86	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
87	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
88	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
89	Coordinated Airborne Studies in the Tropics (CAST). Bulletin of the American Meteorological Society, 2017, 98, 145-162.	1.7	25
90	Global sea-surface iodide observations, 1967â€"2018. Scientific Data, 2019, 6, 286.	2.4	25

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91	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
92	Enhanced ozone loss by active inorganic bromine chemistry in the tropical troposphere. Atmospheric Environment, 2017, 155, 21-28.	1.9	24
93	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
94	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
95	VOC emission rates over London and South East England obtained by airborne eddy covariance. Faraday Discussions, 2017, 200, 599-620.	1.6	23
96	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
97	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
98	Results from the first national UK inter-laboratory calibration for very short-lived halocarbons. Atmospheric Measurement Techniques, 2011, 4, 865-874.	1.2	21
99	Thermal evolution of diffusive transport of atmospheric halocarbons through artificial seaâ€"ice. Atmospheric Environment, 2011, 45, 6393-6402.	1.9	19
100	Title is missing!. Journal of Atmospheric Chemistry, 1999, 33, 111-128.	1.4	18
101	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
102	Global modeling of tropospheric iodine aerosol. Geophysical Research Letters, 2016, 43, 10012-10019.	1.5	17
103	Basin-Scale Observations of Monoterpenes in the Arctic and Atlantic Oceans. Environmental Science & Technology, 2017, 51, 10449-10458.	4.6	16
104	A Global Model for Iodine Speciation in the Upper Ocean. Global Biogeochemical Cycles, 2020, 34, e2019GB006467.	1.9	16
105	HONO measurement by differential photolysis. Atmospheric Measurement Techniques, 2016, 9, 2483-2495.	1.2	15
106	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
107	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
108	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

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109	Halogens in Seaweeds: Biological and Environmental Significance. Phycology, 2022, 2, 132-171.	1.7	12
110	A Relaxed Eddy Accumulation (REA)-GC/MS system for the determination of halocarbon fluxes. Atmospheric Measurement Techniques, 2009, 2, 437-448.	1.2	11
111	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
112	Hydrogen oxide photochemistry in the northern Canadian spring time boundary layer. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	11
113	Observations of ozone-poor air in the tropical tropopause layer. Atmospheric Chemistry and Physics, 2018, 18, 5157-5171.	1.9	11
114	Understanding Iodine Chemistry Over the Northern and Equatorial Indian Ocean. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8104-8118.	1.2	11
115	Influence of the Sea Surface Microlayer on Oceanic Iodine Emissions. Environmental Science & Technology, 2020, 54, 13228-13237.	4.6	11
116	Environmental occurrence, fate, effects, and remediation of halogenated (semi)volatile organic compounds. Environmental Sciences: Processes and Impacts, 2020, 22, 465-471.	1.7	11
117	Quantifying the vertical transport of CHBr₃ and CH₂Br₂ over the western Pacific. Atmospheric Chemistry and Physics, 2018, 18, 13135-13153.	1.9	10
118	Long-term NO_{<i>x</i>} measurements in the remote marine tropical troposphere. Atmospheric Measurement Techniques, 2021, 14, 3071-3085.	1.2	10
119	Energy and ozone fluxes over sea ice. Atmospheric Environment, 2012, 47, 218-225.	1.9	9
120	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
121	Emission of iodine-containing volatiles by selected microalgae species. Atmospheric Chemistry and Physics, 2014, 14, 13327-13335.	1.9	8
122	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
123	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
124	Chemical destruction of CH₃I, C₂H₅I, 1â€C₃H₇I, and 2â€C₃H₇I in saltwater. Geophysical Research Letters, 2007, 34, .	1.5	7
125	Aircraft measurements of very shortâ€lived halocarbons over the tropical Atlantic Ocean. Geophysical Research Letters, 2013, 40, 1005-1010.	1.5	7
126	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

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127	Introduction to special issue on natural halocarbons in the atmosphere. Journal of Atmospheric Chemistry, 2017, 74, 141-143.	1.4	6
128	Transport of short-lived halocarbons to the stratosphere over the Pacific Ocean. Atmospheric Chemistry and Physics, 2020, 20, 1163-1181.	1.9	5
129	Particle fluxes and condensational uptake over sea ice during COBRA. Journal of Geophysical Research, 2012, 117, .	3.3	4
130	Halocarbons associated with Arctic sea ice. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 92, 162-175.	0.6	4
131	Microfluidic derivatisation technique for determination of gaseous molecular iodine with GCâ€“MS. Talanta, 2015, 137, 214-219.	2.9	4
132	A nocturnal atmospheric loss of CH2I2 in the remote marine boundary layer. Journal of Atmospheric Chemistry, 2017, 74, 145-156.	1.4	4
133	Ozone production and precursor emission from wildfires in Africa. Environmental Science Atmospheres, 2021, 1, 524-542.	0.9	4
134	Observations and modelling of glyoxal in the tropical Atlantic marine boundary layer. Atmospheric Chemistry and Physics, 2022, 22, 5535-5557.	1.9	3
135	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
136	Outdoor air pollution: the effects of ozone. Lancet, The, 2004, 364, 663.	6.3	2
137	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
138	Perspectives and Integration in SOLAS Science. Springer Earth System Sciences, 2014, , 247-306.	0.1	2
139	Atmospheric chemistry and the biosphere: general discussion. Faraday Discussions, 2017, 200, 195-228.	1.6	1
140	The air we breathe: Past, present, and future: general discussion. Faraday Discussions, 2017, 200, 501-527.	1.6	1
141	Evaluating Oceanic Uptake of Atmospheric CCl4: A Combined Analysis of Model Simulations and Observations. Geophysical Research Letters, 2019, 46, 472-482.	1.5	1
142	Atmospheric chemistry processes: general discussion. Faraday Discussions, 2017, 200, 353-378.	1.6	0
143	New tools for atmospheric chemistry: general discussion. Faraday Discussions, 2017, 200, 663-691.	1.6	0
144	Highlights from the Faraday Discussion meeting â€œAtmospheric chemistry in the Anthropoceneâ€, York, 2017. Chemical Communications, 2017, 53, 12494-12498.	2.2	0