

# Dwayne E Heard

## List of Publications by Year in descending order

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235  
papers

12,477  
citations

23219

57  
h-index

38855

93  
g-index

350  
all docs

350  
docs citations

350  
times ranked

7418  
citing authors

#	ARTICLE	IF	CITATIONS
1	Halogens and their role in polar boundary-layer ozone depletion. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4375-4418.	4.9	600
2	An overview of snow photochemistry: evidence, mechanisms and impacts. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4329-4373.	4.9	559
3	Development of a detailed chemical mechanism (MCMv3.1) for the atmospheric oxidation of aromatic hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 641-664.	4.9	454
4	Tropospheric OH and HO <sub>2</sub> radicals: field measurements and model comparisons. <i>Chemical Society Reviews</i> , 2012, 41, 6348.	39.8	443
5	Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. <i>Nature</i> , 2008, 453, 1232-1235.	35.8	442
6	Measurement of OH and HO <sub>2</sub> in the Troposphere. <i>Chemical Reviews</i> , 2003, 103, 5163-5198.	50.5	400
7	Accelerated chemistry in the reaction between the hydroxyl radical and methanol at interstellar temperatures facilitated by tunnelling. <i>Nature Chemistry</i> , 2013, 5, 745-749.	14.1	231
8	On the photochemical production of new particles in the coastal boundary layer. <i>Geophysical Research Letters</i> , 1999, 26, 1707-1710.	3.9	198
9	Quantifying the magnitude of a missing hydroxyl radical source in a tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7223-7233.	4.9	195
10	Direct evidence for a substantive reaction between the Criegee intermediate, CH <sub>2</sub> OO, and the water vapour dimer. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4859-4863.	2.9	160
11	The chemistry of OH and HO <sub>2</sub> radicals in the boundary layer over the tropical Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1555-1576.	4.9	159
12	On the vertical distribution of boundary layer halogens over coastal Antarctica: implications for O <sub>3</sub> , HO <sub>x</sub> , NO <sub>x</sub> and the Hg lifetime. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 887-900.	4.9	154
13	Free radical modelling studies during the UK TORCH Campaign in Summer 2003. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 167-181.	4.9	152
14	Simulating atmospheric composition over a South-East Asian tropical rainforest: performance of a chemistry box model. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 279-298.	4.9	132
15	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 169-199.	4.9	130
16	Modeling OH, HO <sub>2</sub> , and RO <sub>2</sub> radicals in the marine boundary layer: 1. Model construction and comparison with field measurements. <i>Journal of Geophysical Research</i> , 1999, 104, 30241-30255.	3.2	128
17	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RHAMBLe) Roscoff coastal study. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2975-2999.	4.9	128
18	Impact of halogen monoxide chemistry upon boundary layer OH and HO <sub>2</sub> concentrations at a coastal site. <i>Geophysical Research Letters</i> , 2005, 32, .	3.9	113

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19	The oxidative capacity of the troposphere: Coupling of field measurements of OH and a global chemistry transport model. <i>Faraday Discussions</i> , 2005, 130, 425.	3.6	111
20	Measurement and modelling of air pollution and atmospheric chemistry in the U.K. West Midlands conurbation: Overview of the PUMA Consortium project. <i>Science of the Total Environment</i> , 2006, 360, 5-25.	8.1	110
21	Detailed budget analysis of HONO in central London reveals a missing daytime source. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2747-2764.	4.9	106
22	Implementation and initial deployment of a field instrument for measurement of OH and HO <sub>2</sub> in the troposphere by laser-induced fluorescence. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2907-2913.	1.8	100
23	Photolysis frequency measurement techniques: results of a comparison within the ACCENT project. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5373-5391.	4.9	100
24	High levels of the hydroxyl radical in the winter urban troposphere. <i>Geophysical Research Letters</i> , 2004, 31, .	3.9	99
25	Seasonal characteristics of tropical marine boundary layer air measured at the Cape Verde Atmospheric Observatory. <i>Journal of Atmospheric Chemistry</i> , 2010, 67, 87-140.	3.1	99
26	Introduction to the special issue "In-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing)". <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7519-7546.	4.9	97
27	OH and HO <sub>2</sub> chemistry in clean marine air during SOAPEX-2. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 839-856.	4.9	95
28	Concentrations of OH and HO <sub>2</sub> radicals during NAMBLEX: measurements and steady state analysis. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1435-1453.	4.9	92
29	Production of peroxy radicals at night via reactions of ozone and the nitrate radical in the marine boundary layer. <i>Journal of Geophysical Research</i> , 2001, 106, 12669-12687.	3.2	90
30	DMS and MSA measurements in the Antarctic Boundary Layer: impact of BrO on MSA production. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2985-2997.	4.9	89
31	Isoprene oxidation mechanisms: measurements and modelling of OH and HO <sub>2</sub> over a South-East Asian tropical rainforest during the OP3 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6749-6771.	4.9	88
32	Theoretical and Experimental Investigation of the Dynamics of the Production of CO from the CH <sub>3</sub> + O and CD <sub>3</sub> + O Reactions. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8361-8369.	2.6	87
33	Urban Atmospheric Chemistry During the PUMA Campaign 1: Comparison of Modelled OH and HO <sub>2</sub> Concentrations with Measurements. <i>Journal of Atmospheric Chemistry</i> , 2005, 52, 143-164.	3.1	83
34	OH and HO <sub>2</sub> chemistry during NAMBLEX: roles of oxygenates, halogen oxides and heterogeneous uptake. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1135-1153.	4.9	83
35	Reporting the sensitivity of laser-induced fluorescence instruments used for HO <sub>2</sub> detection to an interference from RO <sub>2</sub> radicals and introducing a novel approach that enables HO <sub>2</sub> and certain RO <sub>2</sub> types to be selectively measured. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 3425-3440.	3.1	83
36	Absorption cross-section measurements of water vapour and oxygen at 185 nm. Implications for the calibration of field instruments to measure OH, HO <sub>2</sub> and RO <sub>2</sub> radicals. <i>Geophysical Research Letters</i> , 2000, 27, 1651-1654.	3.9	82

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37	Impacts of HO <sub>x</sub> regeneration and recycling in the oxidation of isoprene: Consequences for the composition of past, present and future atmospheres. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	3.9	81
38	LIF measurements in methane/air flames of radicals important in prompt-NO formation. <i>Combustion and Flame</i> , 1992, 88, 137-148.	5.3	80
39	The Essential Role for Laboratory Studies in Atmospheric Chemistry. <i>Environmental Science &amp; Technology</i> , 2017, 51, 2519-2528.	10.3	80
40	Evidence of reactive iodine chemistry in the Arctic boundary layer. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.2	79
41	The first UK measurements of nitryl chloride using a chemical ionization mass spectrometer in central London in the summer of 2012, and an investigation of the role of Cl atom oxidation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5638-5657.	3.3	78
42	OH reactivity in a South East Asian tropical rainforest during the Oxidant and Particle Photochemical Processes (OP3) project. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9497-9514.	4.9	77
43	Atmospheric OH reactivity in central London: observations, model predictions and estimates of in situ ozone production. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2109-2122.	4.9	77
44	Comparison of OH reactivity measurements in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4023-4053.	3.1	77
45	Measurements of OH and HO <sub>2</sub> yields from the gas phase ozonolysis of isoprene. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1441-1459.	4.9	76
46	Chemistry of the Antarctic Boundary Layer and the Interface with Snow: an overview of the CHABLIS campaign. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3789-3803.	4.9	74
47	A flow-tube based laser-induced fluorescence instrument to measure OH reactivity in the troposphere. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 465-477.	3.1	74
48	Evaluating the sensitivity of radical chemistry and ozone formation to ambient VOCs and NO <sub>x</sub> in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2125-2147.	4.9	73
49	Understanding in situ ozone production in the summertime through radical observations and modelling studies during the Clean air for London project (ClearLo). <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2547-2571.	4.9	72
50	Observations of OH and HO <sub>2</sub> radicals in coastal Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4171-4185.	4.9	71
51	Chemical composition observed over the mid-Atlantic and the detection of pollution signatures far from source regions. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.2	71
52	Low Temperature Kinetics of the CH <sub>3</sub> OH + OH Reaction. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2693-2701.	2.6	71
53	Peroxy radical chemistry and the control of ozone photochemistry at Mace Head, Ireland during the summer of 2002. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2193-2214.	4.9	70
54	Elevated levels of OH observed in haze events during wintertime in central Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14847-14871.	4.9	70

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55	Significant OH production under surface cleaning and air cleaning conditions: Impact on indoor air quality. <i>Indoor Air</i> , 2017, 27, 1091-1100.	4.4	68
56	Kinetics of reactions of C <sub>2</sub> H radical with acetylene, O <sub>2</sub> , methylacetylene, and allene in a pulsed Laval nozzle apparatus at T=103K. <i>Chemical Physics Letters</i> , 2001, 344, 317-324.	2.6	67
57	Study of Acetone Photodissociation over the Wavelength Range 248–330 nm: Evidence of a Mechanism Involving Both the Singlet and Triplet Excited States. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6742-6756.	2.6	67
58	Rotational level dependence of predissociation in the v <sub>6</sub> <sup>TM</sup> =3 level of OH A <sup>2</sup> Σ <sup>+</sup> . <i>Journal of Chemical Physics</i> , 1992, 96, 4366-4371.	3.0	66
59	Reactive Halogens in the Marine Boundary Layer (RHAMBLe): the tropical North Atlantic experiments. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1031-1055.	4.9	66
60	The North Atlantic Marine Boundary Layer Experiment (NAMBLEX). Overview of the campaign held at Mace Head, Ireland, in summer 2002. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2241-2272.	4.9	65
61	Pressure and temperature-dependent quantum yields for the photodissociation of acetone between 279 and 327.5 nm. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	3.9	63
62	Laser induced fluorescence studies of the reactions of O(1D <sub>2</sub> ) with N <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> O, CH <sub>4</sub> , H <sub>2</sub> , CO <sub>2</sub> , Ar, Kr and n-C <sub>4</sub> H <sub>10</sub> . <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2162.	2.9	62
63	Detection of iodine monoxide radicals in the marine boundary layer using laser induced fluorescence spectroscopy. <i>Journal of Atmospheric Chemistry</i> , 2007, 58, 19-39.	3.1	62
64	Observations of OH and HO <sub>2</sub> radicals over West Africa. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8783-8801.	4.9	60
65	HO <sub>2</sub> observations over West Africa during AMMA: impact of isoprene and NO <sub>x</sub> . <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9415-9429.	4.9	59
66	Kinetics of C <sub>2</sub> H radical reactions with ethene, propene and 1-butene measured in a pulsed Laval nozzle apparatus at T=103 and 296 K. <i>Chemical Physics Letters</i> , 2001, 348, 21-26.	2.6	58
67	Coupling of HO <sub>2</sub> , NO <sub>x</sub> and halogen chemistry in the antarctic boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10187-10209.	4.9	58
68	OH formation from CH <sub>3</sub> CO+O <sub>2</sub> : a convenient experimental marker for the acetyl radical. <i>Chemical Physics Letters</i> , 2002, 365, 374-379.	2.6	57
69	Pulsed Laval nozzle study of the kinetics of OH with unsaturated hydrocarbons at very low temperatures. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 422-437.	2.9	57
70	Eastern Atlantic Spring Experiment 1997 (EASE97) 2. Comparisons of model concentrations of OH, HO <sub>2</sub> , and RO <sub>2</sub> with measurements. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 5-1.	3.2	56
71	Measurements of OH and HO <sub>2</sub> concentrations in the Southern Ocean marine boundary layer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.2	55
72	Measurements of uptake coefficients for heterogeneous loss of HO <sub>2</sub> onto submicron inorganic salt aerosols. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12829.	2.9	55

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73	A combined experimental and theoretical study of reactions between the hydroxyl radical and oxygenated hydrocarbons relevant to astrochemical environments. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3466-3478.	2.9	55
74	The Reaction of CH <sub>3</sub> O <sub>2</sub> Radicals with OH Radicals: A Neglected Sink for CH <sub>3</sub> O <sub>2</sub> in the Remote Atmosphere. <i>Environmental Science &amp; Technology</i> , 2014, 48, 7700-7701.	10.3	55
75	Photolysis of methylethyl, diethyl and methylvinyl ketones and their role in the atmospheric HOx budget. <i>Faraday Discussions</i> , 2005, 130, 73.	3.6	52
76	The Reaction between CH <sub>3</sub> O <sub>2</sub> and OH Radicals: Product Yields and Atmospheric Implications. <i>Environmental Science &amp; Technology</i> , 2017, 51, 2170-2177.	10.3	52
77	Observation of a large negative temperature dependence for rate coefficients of reactions of OH with oxygenated volatile organic compounds studied at 86±112 K. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13511.	2.9	51
78	DOAS measurements of formaldehyde and glyoxal above a south-east Asian tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5949-5962.	4.9	51
79	Direct measurements of OH and other product yields from the HO <sub>2</sub> +CH <sub>3</sub> C(O)O <sub>2</sub> reaction. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4023-4042.	4.9	49
80	Novel measurements of atmospheric iodine species by resonance fluorescence. <i>Journal of Atmospheric Chemistry</i> , 2008, 60, 51-70.	3.1	48
81	Measurements of Rate Coefficients for Reactions of OH with Ethanol and Propan-2-ol at Very Low Temperatures. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7130-7137.	2.6	47
82	Design of and initial results from a Highly Instrumented Reactor for Atmospheric Chemistry (HIRAC). <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5371-5390.	4.9	46
83	Eastern Atlantic Spring Experiment 1997 (EASE97) 1. Measurements of OH and HO <sub>2</sub> concentrations at Mace Head, Ireland. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 3-1-ACH 3-15.	3.2	45
84	ATMOSPHERIC FIELD MEASUREMENTS OF THE HYDROXYL RADICAL USING LASER-INDUCED FLUORESCENCE SPECTROSCOPY. <i>Annual Review of Physical Chemistry</i> , 2006, 57, 191-216.	11.1	45
85	Determination of the temperature and pressure dependence of the reaction OH + C <sub>2</sub> H <sub>4</sub> from 200±400 K using experimental and master equation analyses. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 5633-5642.	2.9	44
86	A combined experimental and theoretical study of the reaction between methylglyoxal and OH/OD radical: OH regeneration. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4114.	2.9	44
87	Title is missing!. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2921-2927.	1.8	43
88	A Multidimensional Study of the Reaction CH <sub>2</sub> I+O <sub>2</sub> : Products and Atmospheric Implications. <i>ChemPhysChem</i> , 2010, 11, 3928-3941.	2.3	43
89	Seasonal observations of OH and HO <sub>2</sub> in the remote tropical marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2149-2172.	4.9	43
90	Photodissociation of acetone: Atmospheric implications of temperature-dependent quantum yields. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	3.9	42

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91	Radical chemistry at night: comparisons between observed and modelled HO <sub>2</sub> , NO <sub>3</sub> and N <sub>2</sub> O <sub>5</sub> during the RONOCO project. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1299-1321.	4.9	42
92	In situ ozone production is highly sensitive to volatile organic compounds in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13609-13630.	4.9	42
93	An analysis of rapid increases in condensation nuclei concentrations at a remote coastal site in western Ireland. <i>Journal of Geophysical Research</i> , 1999, 104, 13771-13780.	3.2	41
94	Hydroxyl radical and ozone measurements in England during the solar eclipse of 11 August 1999. <i>Geophysical Research Letters</i> , 2000, 27, 3437-3440.	3.9	40
95	OH yields from the CH <sub>3</sub> CO+O <sub>2</sub> reaction using an internal standard. <i>Chemical Physics Letters</i> , 2007, 445, 108-112.	2.6	40
96	Measurement and calculation of OH reactivity at a United Kingdom coastal site. <i>Journal of Atmospheric Chemistry</i> , 2009, 64, 53-76.	3.1	40
97	Measurements of the HO <sub>2</sub> Uptake Coefficients onto Single Component Organic Aerosols. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4878-4885.	10.3	40
98	Rapid Acceleration of Hydrogen Atom Abstraction Reactions of OH at Very Low Temperatures through Weakly Bound Complexes and Tunneling. <i>Accounts of Chemical Research</i> , 2018, 51, 2620-2627.	16.2	40
99	Collisional quenching of OH (A <sup>2</sup> Σ <sup>+</sup> , v=0) by N <sub>2</sub> , O <sub>2</sub> and CO <sub>2</sub> between 204 and 294 K. Implications for atmospheric measurements of OH by laser-induced fluorescence. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2915-2920.	1.8	39
100	Quenching of OH (A <sup>2</sup> Σ <sup>+</sup> , v=0) by several collision partners between 200 and 344 K. Cross-section measurements and model comparisons. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 67-72.	2.9	39
101	Application of a compact all solid-state laser system to the in situ detection of atmospheric OH, HO <sub>2</sub> , NO and IO by laser-induced fluorescence. <i>Journal of Environmental Monitoring</i> , 2003, 5, 21-28.	2.1	39
102	Photo-tautomerization of acetaldehyde as a photochemical source of formic acid in the troposphere. <i>Nature Communications</i> , 2018, 9, 2584.	13.0	39
103	Low-Temperature Kinetics of Reactions of the OH Radical with Propene and 1-Butene Studied by a Pulsed Laval Nozzle Apparatus Combined with Laser-Induced Fluorescence. <i>Journal of Physical Chemistry A</i> , 2001, 105, 7889-7895.	2.6	38
104	Strong anthropogenic control of secondary organic aerosol formation from isoprene in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7531-7552.	4.9	37
105	The atmospheric chemistry of trace gases and particulate matter emitted by different land uses in Borneo. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3177-3195.	4.1	36
106	Uptake of HO <sub>2</sub> radicals onto Arizona test dust particles using an aerosol flow tube. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7397-7408.	4.9	36
107	Rate constants for removal of CH(D) (v=0 and 1) by collisions with N <sub>2</sub> , CO, O <sub>2</sub> , NO and NO <sub>2</sub> at 298 K and with CO <sub>2</sub> at 296-873 K. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 2335-2341.	1.8	35
108	Validation of the calibration of a laser-induced fluorescence instrument for the measurement of OH radicals in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 571-583.	4.9	35



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109	Kinetic Study of the OH + Glyoxal Reaction: Experimental Evidence and Quantification of Direct OH Recycling. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11027-11037.	2.6	35
110	Time-resolved pulsed FTIR emission studies of atom-radical reactions: Product chemiluminescence from the O(3P)+CF <sub>2</sub> (Xlf 1A1) reaction. <i>Chemical Physics Letters</i> , 1989, 158, 167-171.	2.6	34
111	UV-Visible Differential Optical Absorption Spectroscopy (DOAS)., 2006, , 147-188.		34
112	Extensive field evidence for the release of HONO from the photolysis of nitrate aerosols. <i>Science Advances</i> , 2023, 9, .	10.8	34
113	Photochemical impacts of haze pollution in an urban environment. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9699-9714.	4.9	33
114	The effect of viscosity and diffusion on the HO <sub>2</sub> uptake by sucrose and secondary organic aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13035-13047.	4.9	32
115	Collisional quenching of A 2 <sup>1</sup> Σ <sup>+</sup> + NO and A 2 <sup>1</sup> Π <sup>+</sup> CH in low pressure flames. <i>Chemical Physics Letters</i> , 1991, 178, 533-537.	2.6	31
116	Fast photomultiplier tube gating system for photon counting applications. <i>Review of Scientific Instruments</i> , 1998, 69, 4068-4073.	1.4	31
117	An intercomparison of HO <sub>2</sub> measurements by fluorescence assay by gas expansion and cavity ring-down spectroscopy within HIRAC (Highly Instrumented Reactor) <a href="#">Tj ETQq1 1301784314rgBT /O</a>		
118	New Approach to the Detection of Short-Lived Radical Intermediates. <i>Journal of the American Chemical Society</i> , 2022, 144, 15969-15976.	14.5	29
119	Night-time radical chemistry during the NAMBLEX campaign. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 587-598.	4.9	28
120	Iodine monoxide at a clean marine coastal site: observations of high frequency variations and inhomogeneous distributions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6721-6733.	4.9	28
121	A stop-scan interferometer used for time-resolved FTIR emission spectroscopy. <i>Measurement Science and Technology</i> , 1990, 1, 630-636.	2.7	27
122	Alkyl nitrate photochemistry during the tropospheric organic chemistry experiment. <i>Atmospheric Environment</i> , 2010, 44, 773-785.	4.2	27
123	Pressure-dependent calibration of the OH and HO <sub>2</sub> channels of a FAGE HO <sub>2</sub> instrument using the Highly Instrumented Reactor for Atmospheric Chemistry (HIRAC). <i>Atmospheric Measurement Techniques</i> , 2015, 8, 523-540.	3.1	27
124	Redetermination of the rate coefficient for the reaction of O( <sup>1</sup> D) with N <sub>2</sub> . <i>Geophysical Research Letters</i> , 2002, 29, 35-1.	3.9	26
125	Impacts of bromine and iodine chemistry on tropospheric OH and HO <sub>2</sub> : comparing observations with box and global model perspectives. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3541-3561.	4.9	26
126	Low-NO atmospheric oxidation pathways in a polluted megacity. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1613-1625.	4.9	26



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127	OH formation from the C <sub>2</sub> H <sub>5</sub> CO+O <sub>2</sub> reaction: An experimental marker for the propionyl radical. <i>Chemical Physics Letters</i> , 2005, 408, 232-236.	2.6	25
128	Kinetics study of the reaction of iodine monoxide radicals with dimethyl sulfide. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2173.	2.9	25
129	Visualisation of a supersonic free-jet expansion using laser-induced fluorescence spectroscopy: Application to the measurement of rate constants at ultralow temperatures. <i>Applied Physics B: Lasers and Optics</i> , 1997, 65, 375-391.	2.1	24
130	Peroxy radical partitioning during the AMMA radical intercomparison exercise. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10621-10638.	4.9	24
131	Evaluation of Novel Routes for NO <sub>x</sub> Formation in Remote Regions. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7442-7449.	10.3	24
132	The influence of clouds on radical concentrations: observations and modelling studies of HO <sub>2</sub> during the Hill Cap Cloud Thuringia (HCCT) campaign in 2010. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3289-3301.	4.9	23
133	A new method for atmospheric detection of the CH <sub>3</sub> CO <sub>2</sub> radical. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3985-4000.	3.1	23
134	On the origin of the Murchison meteorite phosphonates. Implications for pre-biotic chemistry. <i>Chemical Communications</i> , 2006, , 1643.	4.2	22
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