

# Dwayne E Heard

## List of Publications by Citations

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260  
papers

10,273  
citations

56  
h-index

91  
g-index

326  
ext. papers

11,384  
ext. citations

6.5  
avg, IF

5.81  
L-index

#	Paper	IF	Citations
260	Halogens and their role in polar boundary-layer ozone depletion. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 4375-4418	6.8	494
259	An overview of snow photochemistry: evidence, mechanisms and impacts. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 4329-4373	6.8	459
258	Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. <i>Nature</i> , <b>2008</b> , 453, 1232-1235	5.4	375
257	Development of a detailed chemical mechanism (MCMv3.1) for the atmospheric oxidation of aromatic hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 641-664	6.8	364
256	Measurement of OH and HO <sub>2</sub> in the troposphere. <i>Chemical Reviews</i> , <b>2003</b> , 103, 5163-98	68.1	324
255	Tropospheric OH and HO <sub>2</sub> radicals: field measurements and model comparisons. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 6348-404	58.5	320
254	Accelerated chemistry in the reaction between the hydroxyl radical and methanol at interstellar temperatures facilitated by tunnelling. <i>Nature Chemistry</i> , <b>2013</b> , 5, 745-9	17.6	178
253	On the photochemical production of new particles in the coastal boundary layer. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 1707-1710	4.9	172
252	Quantifying the magnitude of a missing hydroxyl radical source in a tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 7223-7233	6.8	158
251	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> , <b>2015</b> , 17, 4859-63	3.6	134
250	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> , <b>2008</b> , 8, 887-900	6.8	131
249	OH and HO <sub>2</sub> radical chemistry in a forested region of north-western Greece. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 4725-4737	5.3	130
248	Free radical modelling studies during the UK TORCH Campaign in Summer 2003. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 167-181	6.8	125
247	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> , <b>2010</b> , 10, 1555-1576	6.8	124
246	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> , <b>2010</b> , 10, 169-199	6.8	120
245	Simulating atmospheric composition over a South-East Asian tropical rainforest: performance of a chemistry box model. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 279-298	6.8	118
244	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> , <b>1999</b> , 104, 30241-30255		106

243	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> , <b>2010</b> , 10, 2975-2999	6.8	102
242	Impact of halogen monoxide chemistry upon boundary layer OH and HO <sub>2</sub> concentrations at a coastal site. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	102
241	Ozone photochemistry and elevated isoprene during the UK heatwave of august 2003. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 7598-7613	5.3	101
240	The oxidative capacity of the troposphere: coupling of field measurements of OH and a global chemistry transport model. <i>Faraday Discussions</i> , <b>2005</b> , 130, 425-36; discussion 491-517, 519-24	3.6	92
239	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> , <b>2006</b> , 360, 5-25	10.2	91
238	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> , <b>1997</b> , 93, 2907-2913		87
237	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> , <b>2001</b> , 105, 8361-8369	2.8	85
236	Meteorology, Air Quality, and Health in London: The ClearLo Project. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, 779-804	6.1	84
235	Seasonal characteristics of tropical marine boundary layer air measured at the Cape Verde Atmospheric Observatory. <i>Journal of Atmospheric Chemistry</i> , <b>2010</b> , 67, 87-140	3.2	81
234	Photolysis frequency measurement techniques: results of a comparison within the ACCENT project. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 5373-5391	6.8	81
233	Concentrations of OH and HO <sub>2</sub> radicals during NAMBLEX: measurements and steady state analysis. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 1435-1453	6.8	80
232	High levels of the hydroxyl radical in the winter urban troposphere. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	80
231	OH and HO <sub>2</sub> chemistry in clean marine air during SOAPEX-2. <i>Atmospheric Chemistry and Physics</i> , <b>2004</b> , 4, 839-856	6.8	78
230	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> , <b>2005</b> , 52, 143-164	3.2	78
229	Detailed budget analysis of HONO in central London reveals a missing daytime source. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2747-2764	6.8	76
228	OH and HO <sub>2</sub> chemistry during NAMBLEX: roles of oxygenates, halogen oxides and heterogeneous uptake. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 1135-1153	6.8	75
227	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> , <b>2011</b> , 11, 6749-6771	6.8	74
226	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> , <b>2001</b> , 106, 12669-12687		74

225	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> , <b>2019</b> , 19, 7519-7546	6.8	73
224	Evidence of reactive iodine chemistry in the Arctic boundary layer. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		73
223	Impacts of HOx regeneration and recycling in the oxidation of isoprene: Consequences for the composition of past, present and future atmospheres. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	71
222	DMS and MSA measurements in the Antarctic Boundary Layer: impact of BrO on MSA production. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 2985-2997	6.8	69
221	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> , <b>2000</b> , 27, 1651-1654	4.9	69
220	Measurements of OH and HO <sub>2</sub> yields from the gas phase ozonolysis of isoprene. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 1441-1459	6.8	67
219	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> , <b>2015</b> , 120, 5638-5657	4.4	66
218	OH reactivity in a South East Asian tropical rainforest during the Oxidant and Particle Photochemical Processes (OP3) project. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 9497-9514	6.8	64
217	A flow-tube based laser-induced fluorescence instrument to measure OH reactivity in the troposphere. <i>Atmospheric Measurement Techniques</i> , <b>2009</b> , 2, 465-477	4	64
216	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> , <b>2010</b> , 3, 105-114	4	63
215	Chemistry of the Antarctic Boundary Layer and the Interface with Snow: an overview of the CHABLIS campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 3789-3803	6.8	63
214	LIF measurements in methane/air flames of radicals important in prompt-NO formation. <i>Combustion and Flame</i> , <b>1992</b> , 88, 137-148	5.3	63
213	Comment on "Atmospheric hydroxyl radical production from electronically excited NO <sub>2</sub> and H <sub>2</sub> O". <i>Science</i> , <b>2009</b> , 324, 336; author reply 336	33.3	62
212	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> , <b>2006</b> , 110, 6742-56	2.8	62
211	Chemical composition observed over the mid-Atlantic and the detection of pollution signatures far from source regions. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		61
210	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> , <b>2001</b> , 344, 317-324	2.5	61
209	Observations of OH and HO <sub>2</sub> radicals in coastal Antarctica. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 4171-4185	6.8	59
208	Peroxy radical chemistry and the control of ozone photochemistry at Mace Head, Ireland during the summer of 2002. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 2193-2214	6.8	59

207	Reactive Halogens in the Marine Boundary Layer (RHaMBLe): the tropical North Atlantic experiments. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 1031-1055	6.8	58
206	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> , <b>2002</b> , 365, 374-379	2.5	57
205	Detection of iodine monoxide radicals in the marine boundary layer using laser induced fluorescence spectroscopy. <i>Journal of Atmospheric Chemistry</i> , <b>2007</b> , 58, 19-39	3.2	56
204	The Essential Role For Laboratory Studies in Atmospheric Chemistry. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2519-2528	10.3	55
203	Atmospheric OH reactivity in central London: observations, model predictions and estimates of in situ ozone production. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2109-2122	6.8	55
202	Rotational level dependence of predissociation in the v <sub>3</sub> level of OH A 2 $\Sigma$ . <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 4366-4371	3.9	55
201	Low temperature kinetics of the CH <sub>3</sub> OH + OH reaction. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 2693-2701	7.0	54
200	HO <sub>2</sub> ; observations over West Africa during AMMA: impact of isoprene and NO <sub>2</sub> . <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 9415-9429	6.8	54
199	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> , <b>2006</b> , 6, 2241-2272	6.8	54
198	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> , <b>2004</b> , 6, 2162	3.6	54
197	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> , <b>2001</b> , 348, 21-26	2.5	54
196	Observations of OH and HO <sub>2</sub> radicals over West Africa. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 8783-8801	6.8	53
195	Comparison of OH reactivity measurements in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 4023-4053	4	52
194	Significant OH production under surface cleaning and air cleaning conditions: Impact on indoor air quality. <i>Indoor Air</i> , <b>2017</b> , 27, 1091-1100	5.4	50
193	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> , <b>2010</b> , 12, 13511-4	3.6	50
192	Measurements of OH and HO <sub>2</sub> concentrations in the Southern Ocean marine boundary layer. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		50
191	OH and HO <sub>2</sub> measurements in a forested region of north-western Greece. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 4713-4724	5.3	49
190	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> , <b>2014</b> , 16, 3466-78	3.6	48

189	Pressure and temperature-dependent quantum yields for the photodissociation of acetone between 279 and 327.5 nm. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	47
188	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> , <b>2002</b> , 107, ACH 5-1		47
187	Coupling of HO <sub>x</sub> , NO <sub>x</sub> and halogen chemistry in the antarctic boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 10187-10209	6.8	46
186	Photolysis of methylethyl, diethyl and methylvinyl ketones and their role in the atmospheric HO <sub>x</sub> budget. <i>Faraday Discussions</i> , <b>2005</b> , 130, 73-88; discussion 125-51, 519-24	3.6	45
185	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> , <b>2014</b> , 48, 7700-1	10.3	44
184	Pulsed Laval nozzle study of the kinetics of OH with unsaturated hydrocarbons at very low temperatures. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 422-37	3.6	44
183	Novel measurements of atmospheric iodine species by resonance fluorescence. <i>Journal of Atmospheric Chemistry</i> , <b>2008</b> , 60, 51-70	3.2	43
182	Collisional quenching of OH(A <sup>2</sup> Σ <sup>+</sup> , v <sub>2</sub> =0) by H <sub>2</sub> O between 211 and 294 K and the development of a unified model for quenching. <i>Chemical Physics Letters</i> , <b>1999</b> , 302, 132-138	2.5	43
181	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> , <b>2018</b> , 18, 2547-2571	6.8	41
180	Measurements of uptake coefficients for heterogeneous loss of HO <sub>2</sub> onto submicron inorganic salt aerosols. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12829-45	3.6	41
179	A multidimensional study of the reaction CH <sub>2</sub> I+O <sub>2</sub> : products and atmospheric implications. <i>ChemPhysChem</i> , <b>2010</b> , 11, 3928-41	3.2	41
178	Design of and initial results from a Highly Instrumented Reactor for Atmospheric Chemistry (HIRAC). <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 5371-5390	6.8	41
177	The Reaction between CHO and OH Radicals: Product Yields and Atmospheric Implications. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2170-2177	10.3	40
176	A combined experimental and theoretical study of the reaction between methylglyoxal and OH/OD radical: OH regeneration. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 4114-28	3.6	39
175	OH yields from the CH <sub>3</sub> CO+O <sub>2</sub> reaction using an internal standard. <i>Chemical Physics Letters</i> , <b>2007</b> , 445, 108-112	2.5	39
174	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> , <b>2006</b> , 8, 5633-42	3.6	38
173	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> , <b>2001</b> , 105, 7889-7895	2.8	38
172	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> , <b>2015</b> , 119, 7130-7	2.8	37

171	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> , <b>2016</b> , 16, 4023-4042	6.8	37
170	DOAS measurements of formaldehyde and glyoxal above a south-east Asian tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 5949-5962	6.8	37
169	Atmospheric field measurements of the hydroxyl radical using laser-induced fluorescence spectroscopy. <i>Annual Review of Physical Chemistry</i> , <b>2006</b> , 57, 191-216	15.7	37
168	Photodissociation of acetone: Atmospheric implications of temperature-dependent quantum yields. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	37
167	An analysis of rapid increases in condensation nuclei concentrations at a remote coastal site in western Ireland. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 13771-13780		37
166	In situ, gas chromatographic measurements of non-methane hydrocarbons and dimethylsulfide at a remote coastal location (Mace Head, Eire) July/August 1996. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 2921-2927		36
165	Quenching of OH (A <sup>2</sup> <sub>1/2</sub> , v <sup>+</sup> =0) by several collision partners between 200 and 344 K. Cross-section measurements and model comparisons. <i>Physical Chemistry Chemical Physics</i> , <b>2000</b> , 2, 67-72	3.6	36
164	Collisional quenching of OH (A <sup>2</sup> <sub>1/2</sub> , v <sup>+</sup> =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> , <b>1997</b> , 93, 2915-2920		34
163	Measurement and calculation of OH reactivity at a United Kingdom coastal site. <i>Journal of Atmospheric Chemistry</i> , <b>2009</b> , 64, 53-76	3.2	33
162	Radical chemistry at night: comparisons between observed and modelled HO <sub>x</sub> , NO <sub>3</sub> and N <sub>2</sub> O <sub>5</sub> during the RONOCO project. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 1299-1321	6.8	32
161	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> , <b>2011</b> , 366, 3177-95	5.8	32
160	Seasonal observations of OH and HO <sub>2</sub> in the remote tropical marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 2149-2172	6.8	32
159	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> , <b>2004</b> , 4, 571-583	6.8	32
158	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> , <b>2002</b> , 107, ACH 3-1-ACH 3-15		31
157	Hydroxyl radical and ozone measurements in England during the solar eclipse of 11 August 1999. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 3437-3440	4.9	31
156	Time-resolved pulsed FTIR emission studies of atom-radical reactions: Product chemiluminescence from the O(3P)+CF <sub>2</sub> (X <sup>1</sup> A <sub>1</sub> ) reaction. <i>Chemical Physics Letters</i> , <b>1989</b> , 158, 167-171	2.5	31
155	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> , <b>2003</b> , 5, 21-8		30
154	The importance of OH radical-neutral low temperature tunnelling reactions in interstellar clouds using a new model. <i>Molecular Physics</i> , <b>2015</b> , 113, 2243-2254	1.7	29

153	Rate constants for removal of CH(D) (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 ?T/K ? 873. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1996</b> , 92, 2335-2341		29
152	Elevated levels of OH observed in haze events during wintertime in central Beijing. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 14847-14871	6.8	29
151	Collisional quenching of A 2# NO and A 2#CH in low pressure flames. <i>Chemical Physics Letters</i> , <b>1991</b> , 178, 533-537	2.5	28
150	Kinetic study of the OH + glyoxal reaction: experimental evidence and quantification of direct OH recycling. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 11027-37	2.8	27
149	Fast photomultiplier tube gating system for photon counting applications. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 4068-4073	1.7	26
148	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> , <b>2018</b> , 51, 2620-2627	24.3	26
147	Kinetics study of the reaction of iodine monoxide radicals with dimethyl sulfide. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 2173-81	3.6	25
146	<b>2006</b> ,		25
145	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> , <b>2005</b> , 408, 232-236	2.5	25
144	Uptake of HO<sub>2</sub> radicals onto Arizona test dust particles using an aerosol flow tube. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 7397-7408	6.8	24
143	Measurements of the HO <sub>2</sub> uptake coefficients onto single component organic aerosols. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 4878-85	10.3	23
142	An intercomparison of HO<sub>2</sub> measurements by fluorescence assay by gas expansion and cavity ring-down spectroscopy within HIRAC (Highly Instrumented Reactor for Atmospheric Chemistry). <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 4877-4894	4	23
141	Photo-tautomerization of acetaldehyde as a photochemical source of formic acid in the troposphere. <i>Nature Communications</i> , <b>2018</b> , 9, 2584	17.4	23
140	Night-time radical chemistry during the NAMBLEX campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 587-598	6.8	23
139	Iodine monoxide at a clean marine coastal site: observations of high frequency variations and inhomogeneous distributions. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6721-6733	6.8	22
138	Peroxy radical partitioning during the AMMA radical intercomparison exercise. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 10621-10638	6.8	22
137	A stop-scan interferometer used for time-resolved FTIR emission spectroscopy. <i>Measurement Science and Technology</i> , <b>1990</b> , 1, 630-636	2	22
136	Evaluating the sensitivity of radical chemistry and ozone formation to ambient VOCs and NO<sub>2</sub> in Beijing. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 2125-2147	6.8	22



135	Pressure-dependent calibration of the OH and HO <sub>2</sub> channels of a FAGE HO <sub>x</sub> instrument using the Highly Instrumented Reactor for Atmospheric Chemistry (HIRAC). <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 523-540	4	21
134	Photochemical impacts of haze pollution in an urban environment. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 9699-9714	6.8	21
133	The influence of clouds on radical concentrations: observations and modelling studies of HO <sub>x</sub> during the Hill Cap Cloud Thuringia (HCCT) campaign in 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 3289-3301	6.8	21
132	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> , <b>1997</b> , 65, 375-391	1.9	21
131	On the origin of the Murchison meteorite phosphonates. Implications for pre-biotic chemistry. <i>Chemical Communications</i> , <b>2006</b> , 1643-5	5.8	21
130	Atmospheric composition of West Africa: highlights from the AMMA international program. <i>Atmospheric Science Letters</i> , <b>2011</b> , 12, 13-18	2.4	20
129	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> , <b>2016</b> , 16, 13035-13047	6.8	19
128	A Gaussian-3X prediction on the enthalpies of formation of chlorinated phenols and dibenzo-p-dioxins. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 1832-40	2.8	19
127	Strong anthropogenic control of secondary organic aerosol formation from isoprene in Beijing. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 7531-7552	6.8	18
126	Alkyl nitrate photochemistry during the tropospheric organic chemistry experiment. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 773-785	5.3	18
125	On the Development and Validation of FAGE for Local Measurement of Tropospheric OH and HO <sub>2</sub> . <i>Journals of the Atmospheric Sciences</i> , <b>1995</b> , 52, 3428-3441	2.1	18
124	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> , <b>2018</b> , 18, 3541-3561	6.8	17
123	On the interpretation of in situ HONO observations via photochemical steady state. <i>Faraday Discussions</i> , <b>2016</b> , 189, 191-212	3.6	17
122	Mechanism of the reaction of OH with alkynes in the presence of oxygen. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 5407-18	2.8	17
121	Quantum yields for the photolysis of glyoxal below 350 nm and parameterisations for its photolysis rate in the troposphere. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 4984-94	3.6	15
120	Measurements of iodine monoxide at a semi polluted coastal location. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 3645-3663	6.8	15
119	Wavelength dependent photodissociation of CH <sub>3</sub> OOH. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2005</b> , 176, 107-113	4.7	15
118	Measurement of OH reactivity by laser flash photolysis coupled with laser-induced fluorescence spectroscopy. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 2827-2844	4	15

117	OH production from the photolysis of isoprene-derived peroxy radicals: cross-sections, quantum yields and atmospheric implications. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 2332-2345	3.6	14
116	A global model study of the impact of land-use change in Borneo on atmospheric composition. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 9183-9194	6.8	14
115	DOAS observations of formaldehyde and its impact on the HO <sub>x</sub> balance in the tropical Atlantic marine boundary layer. <i>Journal of Atmospheric Chemistry</i> , <b>2010</b> , 66, 167-178	3.2	14
114	Determination of the rate coefficients for the reactions IO + NO <sub>2</sub> + M (air) → IONO <sub>2</sub> + M and O(3P) + NO <sub>2</sub> → O <sub>2</sub> + NO using laser-induced fluorescence spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 6995-7002	2.8	14
113	Comparing Laser-Induced Fluorescence Measurements and Computer Models of Low Pressure Flame Chemistry. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1992</b> , 96, 1410-1416		14
112	Time-Resolved Pulsed FT-IR Emission Studies of Photochemical Reactions. <i>Applied Spectroscopy</i> , <b>1993</b> , 47, 1438-1445	3.1	14
111	Ground and Airborne U.K. Measurements of Nitryl Chloride: An Investigation of the Role of Cl Atom Oxidation at Weybourne Atmospheric Observatory. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 11,154-11,165	4.4	13
110	New chemical source of the HCO radical following photoexcitation of glyoxal, (HCO) <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 8278-85	2.8	13
109	Rovibrational spectroscopy of the C <sub>2</sub> H <sub>2</sub> ?Ar van der Waals complex, using a fluorescence depletion infrared-ultraviolet double resonance technique. <i>Chemical Physics Letters</i> , <b>1996</b> , 250, 95-103	2.5	13
108	Infrared chemiluminescence from the O + CF <sub>2</sub> reaction: part 1. Kinetics of the emission near 2000 cm <sup>-1</sup> . <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 1039-1044		13
107	An overview of snow photochemistry: evidence, mechanisms and impacts		13
106	Organics Substantially Reduce HO <sub>2</sub> Uptake onto Aerosols Containing Transition Metal ions. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 1421-30	2.8	13
105	A new method for atmospheric detection of the CH <sub>3</sub> CO <sub>2</sub> radical. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 3985-4000	4	12
104	Heterogeneous reaction of HO <sub>2</sub> with airborne TiO <sub>2</sub> particles and its implication for climate change mitigation strategies. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 327-338	6.8	11
103	Pressure and temperature dependent photolysis of glyoxal in the 355-414 nm region: evidence for dissociation from multiple states. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 6516-26	3.6	11
102	A kinetic and spectroscopic study of the CH <sub>3</sub> I-Cl and ICH <sub>2</sub> I-Cl adducts. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 9544-54	2.8	11
101	UV-Visible Differential Optical Absorption Spectroscopy (DOAS)147-188		11
100	Quantifying the magnitude of a missing hydroxyl radical source in a tropical rainforest		11

99	An Experimental and Master Equation Study of the Kinetics of OH/OD + SO: The Limiting High-Pressure Rate Coefficients. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 3184-3191	2.8	10
98	Production of HO and OH radicals from near-UV irradiated airborne TiO nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 2325-2336	3.6	10
97	Atmospheric ethanol in London and the potential impacts of future fuel formulations. <i>Faraday Discussions</i> , <b>2016</b> , 189, 105-20	3.6	10
96	New insights into the tropospheric oxidation of isoprene: combining field measurements, laboratory studies, chemical modelling and quantum theory. <i>Topics in Current Chemistry</i> , <b>2014</b> , 339, 55-95		10
95	Kinetics of the N+NCO reaction at 298 K. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 2473-2475		10
94	Atmospheric lifetime as a probe of radical chemistry in the boundary layer. <i>Atmospheric Environment</i> , <b>2003</b> , 37, 2193-2205	5.3	10
93	Implementation of a chemical background method for atmospheric OH measurements by laser-induced fluorescence: characterisation and observations from the UK and China. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 3119-3146	4	9
92	A novel multiplex absorption spectrometer for time-resolved studies. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 024101	1.7	9
91	Night-time measurements of HO <sub>2</sub> during the RONOCO project and analysis of the sources of HO <sub>2</sub> . <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 8179-8200	6.8	9
90	The impact of current CH <sub>4</sub> and N <sub>2</sub> O atmospheric loss process uncertainties on calculated ozone abundances and trends. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 5267-5293	4.4	9
89	Aircraft observations of the lower troposphere above a megacity: Alkyl nitrate and ozone chemistry. <i>Atmospheric Environment</i> , <b>2014</b> , 94, 479-488	5.3	9
88	Hydrogen oxide photochemistry in the northern Canadian spring time boundary layer. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		9
87	Redetermination of the rate coefficient for the reaction of O(1D) with N <sub>2</sub> . <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 35-1-35-4	4.9	9
86	A master equation study of laser-generated interference in the detection of hydroxyl radicals using laser-induced fluorescence. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 4497-4500	4.9	9
85	Time-resolved Fourier-transform infrared emission in the O(3P)+ CHF(1A?) reaction. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 2283-2289		9
84	Evaluation of Novel Routes for NO Formation in Remote Regions. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 7442-7449	10.3	9
83	Key Role of NO Radicals in the Production of Isoprene Nitrates and Nitrooxyorganosulfates in Beijing. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 842-853	10.3	9
82	Comment on "Methanol dimer formation drastically enhances hydrogen abstraction from methanol by OH at low temperature" by W. Siebrand, Z. Smedarchina, E. Martínez-Núñez and A. Fernández-Ramos, <i>Phys. Chem. Chem. Phys.</i> , 2016, 18, 22712. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 8348-8354	3.6	8

81	Observation of a new channel, the production of CH, in the abstraction reaction of OH radicals with acetaldehyde. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 26423-26433	3.6	8
80	The uptake of HO <sub>2</sub> on meteoric smoke analogues. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 554-565	4.4	7
79	Low temperature studies of the removal reactions of 1CH <sub>2</sub> with particular relevance to the atmosphere of Titan. <i>Icarus</i> , <b>2018</b> , 303, 10-21	3.8	7
78	Measurement of Photolysis Frequencies in the Atmosphere 406-500		7
77	A laser-induced fluorescence study of the O(1D) + CF <sub>3</sub> I and IO + NO reactions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2003</b> , 157, 223-230	4.7	7
76	A search for the laser-induced fluorescence of the FCO(X 2A <sub>1</sub> ) radical. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1991</b> , 60, 265-270	4.7	7
75	Infrared chemiluminescence from the O + CF <sub>2</sub> reaction: part 2. Analysis of the emission near 2000 cm <sup>-1</sup> . <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 1045-1048		7
74	Detailed budget analysis of HONO in central London reveals a missing daytime source		7
73	An Experimental Study of the Kinetics of OH/OD(v = 1,2,3) + SO: The Limiting High-Pressure Rate Coefficients as a Function of Temperature. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 3175-3183	2.8	6
72	Measurements of Low Temperature Rate Coefficients for the Reaction of CH with CH <sub>2</sub> O and Application to Dark Cloud and AGB Stellar Wind Models. <i>Astrophysical Journal</i> , <b>2019</b> , 885, 134	4.7	6
71	A laser induced fluorescence study relating to physical properties of the iodine monoxide radical. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 823-34	3.6	6
70	Measurements of nitrogen oxides from Hudson Bay: Implications for NO <sub>x</sub> release from snow and ice covered surfaces. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 2971-2979	5.3	6
69	New directions measuring the elusive tropospheric hydroxyl radical. <i>Atmospheric Environment</i> , <b>1998</b> , 32, 801-802	5.3	6
68	Product Studies of Inelastic and Reactive Collisions of NH <sub>2</sub> + NO: Effects of Vibrationally and Electronically Excited NH <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 8249-8255	2.8	6
67	Observations of OH and HO <sub>2</sub> radicals over West Africa		6
66	Peroxy radical partitioning during the AMMA radical intercomparison exercise		6
65	Observations of OH and HO <sub>2</sub> radicals in coastal Antarctica		6
64	The chemistry of OH and HO <sub>2</sub> radicals in the boundary layer over the tropical Atlantic Ocean		6

63	Low-NO atmospheric oxidation pathways in a polluted megacity. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 1613-1625	6.8	6
62	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		5
61	Corrigendum to "Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools" published in <i>Atmos. Chem. Phys.</i> , 10, 1691-1699, 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 563-563	6.8	5
60	Assessing chemistry schemes and constraints in air quality models used to predict ozone in London against the detailed Master Chemical Mechanism. <i>Faraday Discussions</i> , <b>2016</b> , 189, 589-616	3.6	4
59	Influence of aerosol copper on HO <sub>2</sub> uptake: a novel parameterized equation. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 15835-15850	6.8	4
58	Rainforest-like Atmospheric Chemistry in a Polluted Megacity		4
57	Measurements of iodine monoxide at a semi polluted coastal location		4
56	Characterisation and improvement of $\text{O}(\text{D})$ filter radiometers. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 3455-3466	4	4
55	Low temperature studies of the rate coefficients and branching ratios of reactive loss vs quenching for the reactions of $\text{CH}_2$ with $\text{C}_2\text{H}_6$ , $\text{C}_2\text{H}_4$ , $\text{C}_2\text{H}_2$ . <i>Icarus</i> , <b>2019</b> , 321, 752-766	3.8	4
54	Insights into air pollution chemistry and sulphate formation from nitrous acid (HONO) measurements during haze events in Beijing. <i>Faraday Discussions</i> , <b>2021</b> , 226, 223-238	3.6	4
53	Observations of speciated isoprene nitrates in Beijing: implications for isoprene chemistry <b>2020</b> ,		3
52	A self-consistent, multivariate method for the determination of gas-phase rate coefficients, applied to reactions of atmospheric VOCs and the hydroxyl radical. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 4039-4054	6.8	3
51	Field Measurements of Atmospheric Composition 1-71		3
50	Fluorescence Methods 189-228		3
49	Evaluating the sensitivity of radical chemistry and ozone formation to ambient VOCs and NO <sub>x</sub> in Beijing		3
48	HO <sub>x</sub> ; observations over West Africa during AMMA: impact of isoprene and NO <sub>x</sub> /s		3
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46	OH and HO <sub>2</sub> chemistry during NAMBLEX: roles of oxygenates, halogen oxides and heterogeneous uptake		3

45	Measurements of OH and HO <sub>2</sub> ; yields from the gas phase ozonolysis of isoprene		3
44	Measurement of OH reactivity by laser flash photolysis coupled with laser-induced fluorescence spectroscopy		3
43	Comparison of OH reactivity measurements in the atmospheric simulation chamber SAPHIR		3
42	Kinetics of the Gas Phase Reactions of the Criegee Intermediate CHOO with O and IO. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 6287-6293	2.8	3
41	Using highly time-resolved online mass spectrometry to examine biogenic and anthropogenic contributions to organic aerosol in Beijing. <i>Faraday Discussions</i> , <b>2021</b> , 226, 382-408	3.6	3
40	Introduction to Special Issue "In-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing) <b>2018</b> ,		3
39	Elevated levels of OH observed in haze events during wintertime in central Beijing <b>2020</b> ,		2
38	Photochemical impacts of haze pollution in an urban environment <b>2019</b> ,		2
37	Understanding in situ ozone production in the summertime through radical observations and modelling studies during the Clean air for London project (ClearLo)		2
36	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		2
35	Night-time radical chemistry during the NAMBLEX campaign		2
34	Chemistry of the antarctic boundary layer and the interface with snow: an overview of the CHABLIS campaign		2
33	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RHaMBLe) Roscoff coastal study		2
32	Peroxy radical chemistry and the control of ozone photochemistry at Mace Head, Ireland during the summer of 2002		2
31	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		2
30	Experimental and Theoretical Study of the OH-Initiated Degradation of Piperazine under Simulated Atmospheric Conditions. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 411-422	2.8	2
29	Production of HONO from NO <sub>2</sub> ; uptake on illuminated TiO <sub>2</sub> ; aerosol particles and following the illumination of mixed TiO <sub>2</sub> ; ammonium nitrate particles. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 5755-5775	6.8	2
28	Kinetics of the gas phase reaction of the Criegee intermediate CHOO with SO as a function of temperature. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 19415-19423	3.6	2

27	In situ ozone production is highly sensitive to volatile organic compounds in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13609-13630	6.8	2
26	An intercomparison of CH <sub>3</sub> O <sub>2</sub> measurements by fluorescence assay by gas expansion and cavity ring-down spectroscopy within HIRAC (Highly Instrumented Reactor for Atmospheric Chemistry). <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 2441-2456	4	1
25	Urban case studies: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 189, 473-514	3.6	1
24	Atmospheric chemistry and the biosphere: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 200, 195-228	3.6	1
23	Heterogeneous reaction of HO <sub>2</sub> with airborne TiO <sub>2</sub> particles and its implication for climate change mitigation strategies <b>2017</b> ,		1
22	Pressure dependent calibration of the OH and HO <sub>x</sub> channels of a FAGE HO <sub>x</sub> instrument using the Highly Instrumented Reactor for Atmospheric Chemistry (HIRAC) <b>2014</b> ,		1
21	Coupling of HO <sub>x</sub> , NO <sub>x</sub> and halogen chemistry in the Antarctic boundary layer		1
20	Seasonal observations of OH and HO <sub>2</sub> in the remote tropical marine boundary layer		1
19	A study of the impact of land-use change in Borneo on atmospheric composition using a global model		1
18	Uptake of HO <sub>2</sub> radicals onto Arizona Test Dust aerosols		1
17	Nighttime measurements of HO <sub>x</sub> during the RONOCO project and analysis of the sources of HO <sub>2</sub> ;		1
16	Simulating atmospheric composition over a South-East Asian tropical rainforest: Performance of a chemistry box model		1
15	Reactive Halogens in the Marine Boundary Layer (RHAMBLe): the tropical North Atlantic experiments		1
14	State of the Art OH and HO <sub>2</sub> Radical Measurement Techniques: An Update. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , <b>2013</b> , 59-75	0.3	1
13	A flow-tube based laser-induced fluorescence instrument to measure OH reactivity in the troposphere		1
12	DOAS measurements of formaldehyde and glyoxal above a South-East Asian tropical rainforest		1
11	The effect of viscosity on the HO <sub>2</sub> uptake by sucrose and secondary organic aerosol particles <b>2016</b> ,		1
10	Observations of speciated isoprene nitrates in Beijing: implications for isoprene chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 6315-6330	6.8	0

- 9 Observations and modelling of glyoxal in the tropical Atlantic marine boundary layer. *Atmospheric Chemistry and Physics*, **2022**, 22, 5535-5557 6.8 o
- 8 Kinetic study of the reactions of the sodium dimer (Na<sub>2</sub>) with a range of atmospheric species. *Physical Chemistry Chemical Physics*, **2006**, 8, 3104-15 3.6
- 7 Gas Analysers and Laser Techniques. *Springer Handbooks*, **2021**, 475-509 1.3
- 6 Probing Chemical Mechanisms in Clean and Polluted Environments through Field Measurement/Model Comparisons **2002**, 7-12
- 5 Timescales of mixing and of chemistry: general discussion. *Faraday Discussions*, **2016**, 189, 253-76 3.6
- 4 Numerical modelling strategies for the urban atmosphere: general discussion. *Faraday Discussions*, **2016**, 189, 635-60 3.6
- 3 Low temperature gas phase reaction rate coefficient measurements: Toward modeling of stellar winds and the interstellar medium. *Proceedings of the International Astronomical Union*, **2019**, 15, 382-383<sup>0.1</sup>
- 2 Neutral-Neutral Reactions **2022**, 283-349
- 1 Conclusions: Future Challenges and Perspectives **2022**, 639-669