

Dwayne E Heard

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Observations and modelling of glyoxal in the tropical Atlantic marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 5535-5557	6.8	0
259	Neutral Reactions 2022 , 283-349		
258	Conclusions: Future Challenges and Perspectives 2022 , 639-669		
257	Gas Analysers and Laser Techniques. <i>Springer Handbooks</i> , 2021 , 475-509	1.3	
256	Experimental and Theoretical Study of the OH-Initiated Degradation of Piperazine under Simulated Atmospheric Conditions. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 411-422	2.8	2
255	Production of HONO from NO ₂ uptake on illuminated TiO ₂ aerosol particles and following the illumination of mixed TiO ₂ ammonium nitrate particles. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5755-5775	6.8	2
254	Observations of speciated isoprene nitrates in Beijing: implications for isoprene chemistry. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6315-6330	6.8	0
253	Insights into air pollution chemistry and sulphate formation from nitrous acid (HONO) measurements during haze events in Beijing. <i>Faraday Discussions</i> , 2021 , 226, 223-238	3.6	4
252	Kinetics of the gas phase reaction of the Criegee intermediate CHOO with SO as a function of temperature. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19415-19423	3.6	2
251	Using highly time-resolved online mass spectrometry to examine biogenic and anthropogenic contributions to organic aerosol in Beijing. <i>Faraday Discussions</i> , 2021 , 226, 382-408	3.6	3
250	Key Role of NO Radicals in the Production of Isoprene Nitrates and Nitrooxyorganosulfates in Beijing. <i>Environmental Science & Technology</i> , 2021 , 55, 842-853	10.3	9
249	Low-NO atmospheric oxidation pathways in a polluted megacity. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1613-1625	6.8	6
248	Evaluating the sensitivity of radical chemistry and ozone formation to ambient VOCs and NO _x in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2125-2147	6.8	22
247	In situ ozone production is highly sensitive to volatile organic compounds in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 13609-13630	6.8	2
246	Elevated levels of OH observed in haze events during wintertime in central Beijing 2020 ,		2
245	An intercomparison of CH ₃ O ₂ 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> , 2020 , 13, 2441-2456	4	1
244	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> , 2020 , 13, 3119-3146	4	9

243	Strong anthropogenic control of secondary organic aerosol formation from isoprene in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7531-7552	6.8	18
242	Observations of speciated isoprene nitrates in Beijing: implications for isoprene chemistry 2020 ,		3
241	Elevated levels of OH observed in haze events during wintertime in central Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14847-14871	6.8	29
240	Influence of aerosol copper on HO ₂ uptake: a novel parameterized equation. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 15835-15850	6.8	4
239	Kinetics of the Gas Phase Reactions of the Criegee Intermediate CHOO with O and IO. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6287-6293	2.8	3
238	Production of HO and OH radicals from near-UV irradiated airborne TiO nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2325-2336	3.6	10
237	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	6.8	73
236	Photochemical impacts of haze pollution in an urban environment. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9699-9714	6.8	21
235	Photochemical impacts of haze pollution in an urban environment 2019 ,		2
234	Measurements of Low Temperature Rate Coefficients for the Reaction of CH with CH ₂ O and Application to Dark Cloud and AGB Stellar Wind Models. <i>Astrophysical Journal</i> , 2019 , 885, 134	4.7	6
233	Low temperature gas phase reaction rate coefficient measurements: Toward modeling of stellar winds and the interstellar medium. <i>Proceedings of the International Astronomical Union</i> , 2019 , 15, 382-383 ^{9.1}		
232	Low temperature studies of the rate coefficients and branching ratios of reactive loss vs quenching for the reactions of 1CH ₂ with C ₂ H ₆ , C ₂ H ₄ , C ₂ H ₂ . <i>Icarus</i> , 2019 , 321, 752-766	3.8	4
231	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> , 2018 , 20, 8349-8354	3.6	8
230	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	6.8	41
229	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> , 2018 , 18, 4039-4054	6.8	3
228	Low temperature studies of the removal reactions of 1CH ₂ with particular relevance to the atmosphere of Titan. <i>Icarus</i> , 2018 , 303, 10-21	3.8	7
227	Heterogeneous reaction of HO ₂ with airborne TiO ₂ particles and its implication for climate change mitigation strategies. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 327-338	6.8	11
226	Impacts of bromine and iodine chemistry on tropospheric OH and HO ₂ : comparing observations with box and global model perspectives. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 3541-3561	6.8	17

225	A novel multiplex absorption spectrometer for time-resolved studies. <i>Review of Scientific Instruments</i> , 2018 , 89, 024101	1.7	9
224	Photo-tautomerization of acetaldehyde as a photochemical source of formic acid in the troposphere. <i>Nature Communications</i> , 2018 , 9, 2584	17.4	23
223	Introduction to Special Issue "In-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing) 2018 ,		3
222	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	24.3	26
221	The Reaction between CHO and OH Radicals: Product Yields and Atmospheric Implications. <i>Environmental Science & Technology</i> , 2017 , 51, 2170-2177	10.3	40
220	The uptake of HO ₂ on meteoric smoke analogues. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 554-565	4.4	7
219	The Essential Role for Laboratory Studies in Atmospheric Chemistry. <i>Environmental Science & Technology</i> , 2017 , 51, 2519-2528	10.3	55
218	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> , 2017 , 121, 3175-3183	2.8	6
217	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> , 2017 , 121, 3184-3191	2.8	10
216	Significant OH production under surface cleaning and air cleaning conditions: Impact on indoor air quality. <i>Indoor Air</i> , 2017 , 27, 1091-1100	5.4	50
215	OH production from the photolysis of isoprene-derived peroxy radicals: cross-sections, quantum yields and atmospheric implications. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2332-2345	3.6	14
214	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> , 2017 , 122, 11,154-11,165	4.4	13
213	A new method for atmospheric detection of the CH ₃ O ₂ radical. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 3985-4000	4	12
212	Comparison of OH reactivity measurements in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 4023-4053	4	52
211	An intercomparison of HO ₂ 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> , 2017 , 10, 4877-4894	4	23
210	Atmospheric chemistry and the biosphere: general discussion. <i>Faraday Discussions</i> , 2017 , 200, 195-228	3.6	1
209	Heterogeneous reaction of HO ₂ with airborne TiO ₂ particles and its implication for climate change mitigation strategies 2017 ,		1
208	Evaluation of Novel Routes for NO Formation in Remote Regions. <i>Environmental Science & Technology</i> , 2017 , 51, 7442-7449	10.3	9

207	Urban case studies: general discussion. <i>Faraday Discussions</i> , 2016 , 189, 473-514	3.6	1
206	The effect of viscosity and diffusion on the HO ₂ uptake by sucrose and secondary organic aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13035-13047	6.8	19
205	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	6.8	55
204	Detailed budget analysis of HONO in central London reveals a missing daytime source. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2747-2764	6.8	76
203	Direct measurements of OH and other product yields from the HO ₂ + CH ₃ C(O)O ₂ reaction. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4023-4042	6.8	37
202	On the interpretation of in situ HONO observations via photochemical steady state. <i>Faraday Discussions</i> , 2016 , 189, 191-212	3.6	17
201	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> , 2016 , 189, 589-616	3.6	4
200	Atmospheric ethanol in London and the potential impacts of future fuel formulations. <i>Faraday Discussions</i> , 2016 , 189, 105-20	3.6	10
199	The effect of viscosity on the HO ₂ uptake by sucrose and secondary organic aerosol particles 2016 ,		1
198	Characterisation and improvement of $\text{O}(\text{D})$ filter radiometers. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3455-3466	4	4
197	Measurement of OH reactivity by laser flash photolysis coupled with laser-induced fluorescence spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 2827-2844	4	15
196	Timescales of mixing and of chemistry: general discussion. <i>Faraday Discussions</i> , 2016 , 189, 253-76	3.6	
195	Numerical modelling strategies for the urban atmosphere: general discussion. <i>Faraday Discussions</i> , 2016 , 189, 635-60	3.6	
194	Organics Substantially Reduce HO ₂ Uptake onto Aerosols Containing Transition Metal ions. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 1421-30	2.8	13
193	Observation of a new channel, the production of CH ₃ , in the abstraction reaction of OH radicals with acetaldehyde. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26423-26433	3.6	8
192	Pressure-dependent calibration of the OH and HO ₂ channels of a FAGE HO _x instrument using the Highly Instrumented Reactor for Atmospheric Chemistry (HIRAC). <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 523-540	4	21
191	Measurements of the HO ₂ uptake coefficients onto single component organic aerosols. <i>Environmental Science & Technology</i> , 2015 , 49, 4878-85	10.3	23
190	The importance of OH radical neutral low temperature tunnelling reactions in interstellar clouds using a new model. <i>Molecular Physics</i> , 2015 , 113, 2243-2254	1.7	29

189	Meteorology, Air Quality, and Health in London: The ClearLo Project. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 779-804	6.1	84
188	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, 7130-7	2.8	37
187	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	4.4	66
186	The influence of clouds on radical concentrations: observations and modelling studies of HO ₂ during the Hill Cap Cloud Thuringia (HCCT) campaign in 2010. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3289-3301	6.8	21
185	Night-time measurements of HO ₂ during the RONOCO project and analysis of the sources of HO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8179-8200	6.8	9
184	The impact of current CH ₄ and N ₂ O atmospheric loss process uncertainties on calculated ozone abundances and trends. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5267-5293	4.4	9
183	Direct evidence for a substantive reaction between the Criegee intermediate, CH ₂ OO, and the water vapour dimer. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4859-63	3.6	134
182	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, 3466-78	3.6	48
181	Low temperature kinetics of the CH ₃ OH + OH reaction. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 2693-701	10.1	54
180	The reaction of CH ₃ O ₂ radicals with OH radicals: a neglected sink for CH ₃ O ₂ in the remote atmosphere. <i>Environmental Science & Technology</i> , 2014 , 48, 7700-1	10.3	44
179	Uptake of HO ₂ radicals onto Arizona test dust particles using an aerosol flow tube. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7397-7408	6.8	24
178	Radical chemistry at night: comparisons between observed and modelled HO ₂ , NO ₃ and N ₂ O ₅ during the RONOCO project. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1223-1231	6.8	32
177	Pressure dependent calibration of the OH and HO ₂ channels of a FAGE HO ₂ instrument using the Highly Instrumented Reactor for Atmospheric Chemistry (HIRAC) 2014 ,		1
176	Aircraft observations of the lower troposphere above a megacity: Alkyl nitrate and ozone chemistry. <i>Atmospheric Environment</i> , 2014 , 94, 479-488	5.3	9
175	New insights into the tropospheric oxidation of isoprene: combining field measurements, laboratory studies, chemical modelling and quantum theory. <i>Topics in Current Chemistry</i> , 2014 , 339, 55-95		10
174	Kinetic study of the OH + glyoxal reaction: experimental evidence and quantification of direct OH recycling. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 11027-37	2.8	27
173	Measurements of uptake coefficients for heterogeneous loss of HO ₂ onto submicron inorganic salt aerosols. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12829-45	3.6	41
172	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> , 2013 , 15, 6516-26	3.6	11

171	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> , 2013 , 15, 4984-94	3.6	15
170	Mechanism of the reaction of OH with alkynes in the presence of oxygen. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 5407-18	2.8	17
169	Accelerated chemistry in the reaction between the hydroxyl radical and methanol at interstellar temperatures facilitated by tunnelling. <i>Nature Chemistry</i> , 2013 , 5, 745-9	17.6	178
168	Reporting the sensitivity of Laser Induced Fluorescence instruments used for HO ₂ detection to an interference from RO ₂ radicals and introducing a novel approach that enables HO ₂ and certain		5
167	Reporting the sensitivity of laser-induced fluorescence instruments used for HO ₂ detection to an interference from RO ₂ radicals and introducing a novel approach that enables HO ₂ and certain	4	63
166	RO ₂ types to be selectively measured. <i>Atmospheric Measurement</i> A global model study of the impact of land-use change in Borneo on atmospheric composition. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9183-9194	6.8	14
165	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	6.8	64
164	State of the Art OH and HO ₂ Radical Measurement Techniques: An Update. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2013 , 59-75	0.3	1
163	Tropospheric OH and HO ₂ radicals: field measurements and model comparisons. <i>Chemical Society Reviews</i> , 2012 , 41, 6348-404	58.5	320
162	DOAS measurements of formaldehyde and glyoxal above a south-east Asian tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 5949-5962	6.8	37
161	Seasonal observations of OH and HO ₂ in the remote tropical marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 2149-2172	6.8	32
160	Impacts of HO _x 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	4.9	71
159	Quantifying the magnitude of a missing hydroxyl radical source in a tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7223-7233	6.8	158
158	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	6.8	22
157	Isoprene oxidation mechanisms: measurements and modelling of OH and HO ₂ over a South-East Asian tropical rainforest during the OP3 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6749-6771	6.8	74
156	Hydrogen oxide photochemistry in the northern Canadian spring time boundary layer. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		9
155	Atmospheric composition of West Africa: highlights from the AMMA international program. <i>Atmospheric Science Letters</i> , 2011 , 12, 13-18	2.4	20
154	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, 3177-95	5.8	32

153	A laser induced fluorescence study relating to physical properties of the iodine monoxide radical. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 823-34	3.6	6
152	Evidence of reactive iodine chemistry in the Arctic boundary layer. <i>Journal of Geophysical Research</i> , 2010 , 115,		73
151	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, 13511-4	3.6	50
150	Peroxy radical partitioning during the AMMA radical intercomparison exercise. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10621-10638	6.8	22
149	Observations of OH and HO ₂ radicals over West Africa. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8783-8801	6.8	53
148	Coupling of HO _x , NO _x and halogen chemistry in the antarctic boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10187-10209	6.8	46
147	Reactive Halogens in the Marine Boundary Layer (RHaMBLe): the tropical North Atlantic experiments. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1031-1055	6.8	58
146	The chemistry of OH and HO ₂ radicals in the boundary layer over the tropical Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1555-1576	6.8	124
145	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	6.8	120
144	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	6.8	118
143	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	6.8	102
142	Measurements of iodine monoxide at a semi polluted coastal location. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 3645-3663	6.8	15
141	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 Atmos. Chem. Phys., 10, 169-199, 2010. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 563-563	6.8	5
140	Measurements of OH and HO ₂ yields from the gas phase ozonolysis of isoprene. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1441-1459	6.8	67
139	HO _x observations over West Africa during AMMA: impact of isoprene and NO _x . <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9415-9429	6.8	54
138	DOAS observations of formaldehyde and its impact on the HO _x balance in the tropical Atlantic marine boundary layer. <i>Journal of Atmospheric Chemistry</i> , 2010 , 66, 167-178	3.2	14
137	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	3.2	81
136	Alkyl nitrate photochemistry during the tropospheric organic chemistry experiment. <i>Atmospheric Environment</i> , 2010 , 44, 773-785	5.3	18

135	Measurements of nitrogen oxides from Hudson Bay: Implications for NO _x release from snow and ice covered surfaces. <i>Atmospheric Environment</i> , 2010 , 44, 2971-2979	5.3	6
134	A multidimensional study of the reaction CH ₂ I+O ₂ : products and atmospheric implications. <i>ChemPhysChem</i> , 2010 , 11, 3928-41	3.2	41
133	A flow-tube based laser-induced fluorescence instrument to measure OH reactivity in the troposphere. <i>Atmospheric Measurement Techniques</i> , 2009 , 2, 465-477	4	64
132	Comment on "Atmospheric hydroxyl radical production from electronically excited NO ₂ and H ₂ O". <i>Science</i> , 2009 , 324, 336; author reply 336	33.3	62
131	Measurement and calculation of OH reactivity at a United Kingdom coastal site. <i>Journal of Atmospheric Chemistry</i> , 2009 , 64, 53-76	3.2	33
130	New chemical source of the HCO radical following photoexcitation of glyoxal, (HCO) ₂ . <i>Journal of Physical Chemistry A</i> , 2009 , 113, 8278-85	2.8	13
129	Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. <i>Nature</i> , 2008 , 453, 1232-5.4	375	
128	Pulsed Laval nozzle study of the kinetics of OH with unsaturated hydrocarbons at very low temperatures. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 422-37	3.6	44
127	A Gaussian-3X prediction on the enthalpies of formation of chlorinated phenols and dibenzo-p-dioxins. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1832-40	2.8	19
126	A kinetic and spectroscopic study of the CH ₃ -Cl and ICH ₂ -Cl adducts. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 9544-54	2.8	11
125	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	6.8	63
124	On the vertical distribution of boundary layer halogens over coastal Antarctica: implications for O ₃ , HO _x , NO _x and the Hg lifetime. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 887-900	6.8	131
123	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	6.8	69
122	Photolysis frequency measurement techniques: results of a comparison within the ACCENT project. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5373-5391	6.8	81
121	Novel measurements of atmospheric iodine species by resonance fluorescence. <i>Journal of Atmospheric Chemistry</i> , 2008 , 60, 51-70	3.2	43
120	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, 4114-28	3.6	39
119	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,		61
118	OH yields from the CH ₃ CO+O ₂ reaction using an internal standard. <i>Chemical Physics Letters</i> , 2007 , 445, 108-112	2.5	39

117	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	3.2	56
116	Free radical modelling studies during the UK TORCH Campaign in Summer 2003. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 167-181	6.8	125
115	Observations of OH and HO₂ radicals in coastal Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4171-4185	6.8	59
114	An overview of snow photochemistry: evidence, mechanisms and impacts. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4329-4373	6.8	459
113	Halogens and their role in polar boundary-layer ozone depletion. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4375-4418	6.8	494
112	Night-time radical chemistry during the NAMBLEX campaign. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 587-598	6.8	23
111	Design of and initial results from a Highly Instrumented Reactor for Atmospheric Chemistry (HIRAC). <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5371-5390	6.8	41
110	Ozone photochemistry and elevated isoprene during the UK heatwave of August 2003. <i>Atmospheric Environment</i> , 2006 , 40, 7598-7613	5.3	101
109	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	10.2	91
108	Atmospheric field measurements of the hydroxyl radical using laser-induced fluorescence spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2006 , 57, 191-216	15.7	37
107	Kinetic study of the reactions of the sodium dimer (Na ₂) with a range of atmospheric species. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3104-15	3.6	
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