Charles Nicholas Peter Hewitt

List of Publications by Citations

238 papers	13,244 citations	55 h-index	110 g-index
271 ext. papers	14,656 ext. citations	7.2 avg, IF	6.08 L-index

#	Paper	IF	Citations
238	A global model of natural volatile organic compound emissions. *Journal of Geophysical Research*, **1995**, 100, 8873		3022
237	Emissions of volatile organic compounds from vegetation and the implications for atmospheric chemistry. *Global Biogeochemical Cycles*, **1992**, 6, 389-430	5.9	656
236	Inventorying emissions from nature in Europe. *Journal of Geophysical Research*, **1999**, 104, 8113-8152		375
235	Effectiveness of green infrastructure for improvement of air quality in urban street canyons. *Environmental Science & Technology*, **2012**, 46, 7692-9	10.3	355
234	Biogenic volatile organic compounds in the Earth system. *New Phytologist*, **2009**, 183, 27-51	9.8	347
233	Biogenic emissions in Europe: 1. Estimates and uncertainties. *Journal of Geophysical Research*, **1995**, 100, 22875		273
232	Quantifying the effect of urban tree planting on concentrations and depositions of PM10 in two UK conurbations. *Atmospheric Environment*, **2007**, 41, 8455-8467	5.3	265
231	The relative greenhouse gas impacts of realistic dietary choices. *Energy Policy*, **2012**, 43, 184-190	7.2	220
230	Isoprene synthesis protects transgenic tobacco plants from oxidative stress. *Plant, Cell and Environment*, **2009**, 32, 520-31	8.4	180
229	Formation and occurrence of organic hydroperoxides in the troposphere: Laboratory and field observations. *Journal of Atmospheric Chemistry*, **1991**, 12, 181-194	3.2	177
228	The effect of trade between China and the UK on national and global carbon dioxide emissions. *Energy Policy*, **2008**, 36, 1907-1914	7.2	167
227	Measurement of monoterpenes and related compounds by proton transfer reaction-mass spectrometry (PTR-MS). *International Journal of Mass Spectrometry*, **2003**, 223-224, 561-578	1.9	155
226	The application of proton transfer reaction-mass spectrometry (PTR-MS) to the monitoring and analysis of volatile organic compounds in the atmosphere. *Journal of Environmental Monitoring*, **2003**, 5, 1-7		145
225	Global terrestrial isoprene emission models: sensitivity to variability in climate and vegetation. *Atmospheric Chemistry and Physics*, **2011**, 11, 8037-8052	6.8	143
224	A dedicated study of New Particle Formation and Fate in the Coastal Environment (PARFORCE): Overview of objectives and achievements. *Journal of Geophysical Research*, **2002**, 107, PAR 1-1		142
223	Nitrogen management is essential to prevent tropical oil palm plantations from causing ground-level ozone pollution. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 18447-51	11.5	140
222	Hydroperoxides in plants exposed to ozone mediate air pollution damage to alkene emitters. *Nature*, **1990**, 344, 56-8	50.4	138

221	Evidence for a significant proportion of Secondary Organic Aerosol from isoprene above a maritime tropical forest. *Atmospheric Chemistry and Physics*, **2011**, 11, 1039-1050	6.8	136
220	Scenario Archetypes: Converging Rather than Diverging Themes. *Sustainability*, **2012**, 4, 740-772	3.6	120
219	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. *Atmospheric Chemistry and Physics*, **2010**, 10, 169-199	6.8	120
218	Simulating atmospheric composition over a South-East Asian tropical rainforest: performance of a chemistry box model. *Atmospheric Chemistry and Physics*, **2010**, 10, 279-298	6.8	118
217	Mitigating the greenhouse gas emissions embodied in food through realistic consumer choices. *Energy Policy*, **2013**, 63, 1065-1074	7.2	109
216	The effects of glacial atmospheric CO2 concentrations and climate on isoprene emissions by vascular plants. *Global Change Biology*, **2005**, 11, 60-69	11.4	104
215	Discrimination of plant volatile signatures by an electronic nose: aA potential technology for plant pest and disease monitoring. *Environmental Science & Technology*, **2008**, 42, 8433-9	10.3	103
214	Atmospheric chemistry and physics in the atmosphere of a developed megacity (London): an overview of the REPARTEE experiment and its conclusions. *Atmospheric Chemistry and Physics*, **2012**, 12, 3065-3114	6.8	102
213	Fluxes and concentrations of volatile organic compounds from a South-East Asian tropical rainforest. *Atmospheric Chemistry and Physics*, **2010**, 10, 8391-8412	6.8	102
212	Isoprene emissions influence herbivore feeding decisions. *Plant, Cell and Environment*, **2008**, 31, 1410-5	8.4	101
211	The atmospheric chemistry of sulphur and nitrogen in power station plumes. *Atmospheric Environment*, **2001**, 35, 1155-1170	5.3	101
210	Biogenic sulphur emissions and inferred non-sea-salt-sulphate cloud condensation nuclei in and around Antarctica. *Journal of Geophysical Research*, **1997**, 102, 12839-12854		94
209	Forests and Their Canopies: Achievements and Horizons in Canopy Science. *Trends in Ecology and Evolution*, **2017**, 32, 438-451	10.9	93
208	Performance characteristics and applications of a proton transfer reaction-mass spectrometer for measuring volatile organic compounds in ambient air. *Environmental Science & Technology*, **2002**, 36, 1554-60	10.3	90
207	Benchmarking sustainability in cities: The role of indicators and future scenarios. *Global Environmental Change*, **2012**, 22, 245-254	10.1	87
206	Fluxes and concentrations of volatile organic compounds above central London, UK. *Atmospheric Chemistry and Physics*, **2010**, 10, 627-645	6.8	80
205	Effect of water vapour pressure on monoterpene measurements using proton transfer reaction-mass spectrometry (PTR-MS). *International Journal of Mass Spectrometry*, **2004**, 239, 161-169	1.9	80
204	Atmospheric benzenoid emissions from plants rival those from fossil fuels. *Scientific Reports*, **2015**, 5, 12064	4.9	79

203	Current global food production is sufficient to meet human nutritional needs in 2050 provided there is radical societal adaptation. *Elementa*, **2018**, 6,	3.6	79
202	Atmosphere Hydrogen Peroxide and Organic Hydroperoxides: A Review. *Critical Reviews in Environmental Science and Technology*, **1999**, 29, 175-228	11.1	78
201	Impact of rising CO2 on emissions of volatile organic compounds: isoprene emission from Phragmites australis growing at elevated CO2 in a natural carbon dioxide spring *Plant, Cell and Environment*, **2004**, 27, 393-401	8.4	76
200	Mixing ratios and eddy covariance flux measurements of volatile organic compounds from an urban canopy (Manchester, UK). *Atmospheric Chemistry and Physics*, **2009**, 9, 1971-1987	6.8	75
199	Development and application of an urban tree air quality score for photochemical pollution episodes using the Birmingham, United Kingdom, area as a case study. *Environmental Science & Technology*, **2005**, 39, 6730-8	10.3	75
198	A qualitative assessment of the emission of non-methane hydrocarbon compounds from the biosphere to the atmosphere in the U.K.: Present knowledge and uncertainties. *Atmospheric Environment Part A General Topics*, **1992**, 26, 3069-3077		74
197	Introduction to the special issue h-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing) *Atmospheric Chemistry and Physics*, **2019**, 19, 7519-7546	6.8	73
196	Direct ecosystem fluxes of volatile organic compounds from oil palms in South-East Asia. *Atmospheric Chemistry and Physics*, **2011**, 11, 8995-9017	6.8	73
195	Using green infrastructure to improve urban air quality (GI4AQ). *Ambio*, **2020**, 49, 62-73	6.5	71
194	Sensitivity of isoprene emissions from the terrestrial biosphere to 20th century changes in atmospheric CO2 concentration, climate, and land use. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	70
193	Concentrations and fluxes of biogenic volatile organic compounds above a Mediterranean macchia ecosystem in western Italy. *Biogeosciences*, **2009**, 6, 1655-1670	4.6	70
192	Removal rates of selected pollutants in the runoff waters from a major rural highway. *Water Research*, **1992**, 26, 311-319	12.5	70
191	Isoprene emissions from plants are mediated by atmospheric CO2 concentrations. *Global Change Biology*, **2011**, 17, 1595-1610	11.4	66
190	Photosynthesis-dependent isoprene emission from leaf to planet in a global carbon-chemistry-climate model. *Atmospheric Chemistry and Physics*, **2013**, 13, 10243-10269	6.8	64
189	Volatile organic compounds emissions in Norway spruce (Picea abies) in response to temperature changes. *Physiologia Plantarum*, **2007**, 130, 58-66	4.6	64
188	Impacts of biofuel cultivation on mortality and crop yields. *Nature Climate Change*, **2013**, 3, 492-496	21.4	63
187	An integrated budget for selected pollutants for a major rural highway. *Science of the Total Environment*, **1990**, 93, 375-84	10.2	61
186	Enhanced global primary production by biogenic aerosol via diffuse radiation fertilization. *Nature Geoscience*, **2018**, 11, 640-644	18.3	59

185	Circadian control of isoprene emissions from oil palm (Elaeis guineensis). *Plant Journal*, **2006**, 47, 960-8	6.9	59
184	Dimethyl sulfide, methane sulfonic acid and physicochemical aerosol properties in Atlantic air from the United Kingdom to Halley Bay. *Journal of Geophysical Research*, **1996**, 101, 22855-22867		57
183	Effects of land use on surface-atmosphere exchanges of trace gases and energy in Borneo: comparing fluxes over oil palm plantations and a rainforest. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2011**, 366, 3196-209	5.8	55
182	Isoprene emissions from the grass Arundo donax L. are not linked to photorespiration. *Plant Science*, **1990**, 66, 139-144	5.3	54
181	Isoprene and monoterpene emissions from a eucalyptus plantation in Portugal. *Journal of Geophysical Research*, **1997**, 102, 15875-15887		53
180	Greenhouse gas emissions of food waste disposal options for UK retailers. *Food Policy*, **2018**, 77, 50-58	5	52
179	Large estragole fluxes from oil palms in Borneo. *Atmospheric Chemistry and Physics*, **2010**, 10, 4343-4358	6.8	52
178	Impacts of near-future cultivation of biofuel feedstocks on atmospheric composition and local air quality. *Atmospheric Chemistry and Physics*, **2012**, 12, 919-939	6.8	50
177	Online analysis of volatile organic compound emissions from Sitka spruce (Picea sitchensis). *Tree Physiology*, **2004**, 24, 721-8	4.2	50
176	Dimethyl sulfide in the Amazon rain forest. *Global Biogeochemical Cycles*, **2015**, 29, 19-32	5.9	49
175	Ground-level ozone influenced by circadian control of isoprene emissions. *Nature Geoscience*, **2011**, 4, 671-674	18.3	49
174	A highly spatially and temporally resolved inventory for biogenic isoprene and monoterpene emissions: Model description and application to Great Britain. *Journal of Geophysical Research*, **2003**, 108,		49
173	Global Organic Emissions from Vegetation. *Advances in Global Change Research*, **2004**, 115-170	1.2	49
172	Sensitivity of isoprene emissions estimated using MEGAN to the time resolution of input climate data. *Atmospheric Chemistry and Physics*, **2010**, 10, 1193-1201	6.8	48
171	Urban land classification and its uncertainties using principal component and cluster analyses: A case study for the UK West Midlands. *Landscape and Urban Planning*, **2006**, 78, 311-321	7.7	48
170	Eddy flux and leaf-level measurements of biogenic VOC emissions from mopane woodland of Botswana. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		46
169	Isoprene emission protects photosynthesis but reduces plant productivity during drought in transgenic tobacco (Nicotiana tabacum) plants. *New Phytologist*, **2014**, 201, 205-216	9.8	44
168	Study of the Degradation by Ozone of Adsorbents and of Hydrocarbons Adsorbed during the Passive Sampling of Air. *Environmental Science & Technology*, **1994**, 28, 757-62	10.3	44

167	Uptake of aldehydes and ketones at typical indoor concentrations by houseplants. *Environmental Science & Technology*, **2009**, 43, 8338-43	10.3	42
166	Interactive effects of elevated CO2 and soil fertility on isoprene emissions from Quercus robur. *Global Change Biology*, **2004**, 10, 1835-1843	11.4	41
165	ACE-2 HILLCLOUD. An overview of the ACE-2 ground-based cloud experiment. *Tellus, Series B: Chemical and Physical Meteorology*, **2000**, 52, 750-778	3.3	41
164	Build-up of artifacts on adsorbents during storage and its effect on passive sampling and gas chromatography-flame ionization detection of low concentrations of volatile organic compounds in air. *Journal of Chromatography A*, **1994**, 688, 368-374	4.5	41
163	BIOGENIC VOLATILE ORGANIC COMPOUND (VOC) EMISSION ESTIMATES FROM AN URBAN TREE CANOPY **2003**, 13, 927-938		39
162	Exposure to isoprene promotes flowering in plants. *Journal of Experimental Botany*, **1995**, 46, 1629-1631	7	39
161	Soil and street dust heavy metal concentrations in and around Cuenca, Ecuador. *Environmental Pollution*, **1990**, 63, 129-36	9.3	39
160	Defining hybrid poplar (Populus deltoides x Populus trichocarpa) tolerance to ozone: identifying key parameters. *Plant, Cell and Environment*, **2009**, 32, 31-45	8.4	38
159	Climate–society feedbacks and the avoidance of dangerous climate change. *Nature Climate Change*, **2012**, 2, 668-671	21.4	38
158	Genetic structure and regulation of isoprene synthase in Poplar (Populus spp.). *Plant Molecular Biology*, **2010**, 73, 547-58	4.6	38
157	An analysis of rapid increases in condensation nuclei concentrations at a remote coastal site in western Ireland. *Journal of Geophysical Research*, **1999**, 104, 13771-13780		37
156	PAHs in Air Adjacent to Two Inland Water Bodies. *Environmental Science & Technology*, **1995**, 29, 2405-13	10.3	35
155	Natural sulphur species from the North Atlantic and their contribution to the United Kingdom sulphur budget. *Journal of Geophysical Research*, **1992**, 97, 2475		34
154	Ozone-hydrocarbon interactions in plants. *Phytochemistry*, **1992**, 31, 4045-4050	4	34
153	Spatially resolved flux measurements of NOx from London suggest significantly higher emissions than predicted by inventories. *Faraday Discussions*, **2016**, 189, 455-72	3.6	33
152	The influence of small-scale variations in isoprene concentrations on atmospheric chemistry over a tropical rainforest. *Atmospheric Chemistry and Physics*, **2011**, 11, 4121-4134	6.8	33
151	Isoprene synthesis in plants: lessons from a transgenic tobacco model. *Plant, Cell and Environment*, **2011**, 34, 1043-1053	8.4	33
150	The atmospheric chemistry of trace gases and particulate matter emitted by different land uses in Borneo. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2011**, 366, 3177-95	5.8	32

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148	Field studies of isoprene emissions from vegetation in the northwest Mediterranean region. *Journal of Geophysical Research*, **1998**, 103, 25499-25511		32
147	Laboratory and field studies of biogenic volatile organic compound emissions from Sitka spruce (Picea sitchensis Bong.) in the United Kingdom. *Journal of Geophysical Research*, **1996**, 101, 22799-22806		32
146	A proton transfer reaction mass spectrometry based system for determining plant uptake of volatile organic compounds. *Atmospheric Environment*, **2007**, 41, 1736-1746	5.3	31
145	Observations of new particle production in the atmosphere of a moderately polluted site in eastern England. *Journal of Geophysical Research*, **2000**, 105, 17819-17832		31
144	Evaluation of tenax-GR adsorbent for the passive sampling of volatile organic compounds at low concentrations. *Atmospheric Environment Part A General Topics*, **1993**, 27, 1865-1872		31
143	Atmospheric concentrations and chemistry of alkyllead compounds and environmental alkylation of lead. *Environmental Science & Technology*, **1987**, 21, 260-6	10.3	30
142	Spatially-varying surface roughness and ground-level air quality in an operational dispersion model. *Environmental Pollution*, **2014**, 185, 44-51	9.3	29
141	The role of biogenic hydrocarbons in the production of ozone in urban plumes in southeast England. *Atmospheric Environment Part A General Topics*, **1991**, 25, 351-359		29
140	A sensitive, specific method for the determination of tetraalkyllead compounds in air by gas chromatography/atomic absorption spectrometry. *Analytica Chimica Acta*, **1985**, 167, 277-287	6.6	29
139	Elevated levels of OH observed in haze events during wintertime in central Beijing. *Atmospheric Chemistry and Physics*, **2020**, 20, 14847-14871	6.8	29
138	Influence of future climate and cropland expansion on isoprene emissions and tropospheric ozone. *Atmospheric Chemistry and Physics*, **2014**, 14, 1011-1024	6.8	28
137	Seasonal and diurnal trends in concentrations and fluxes of volatile organic compounds in central London. *Atmospheric Chemistry and Physics*, **2015**, 15, 7777-7796	6.8	28
136	Gas exchange and photosynthetic performance of the tropical tree Acacia nigrescens when grown in different CO(2) concentrations. *Planta*, **2009**, 229, 837-46	4.7	28
135	Determination of biogenic volatile organic compounds (C8–C16) in the coastal atmosphere at Mace Head, Ireland. *Analytica Chimica Acta*, **2001**, 428, 61-72	6.6	27
134	Artefacts in sorption experiments with trace metals. *Science of the Total Environment*, **1994**, 152, 227-238	10.2	27
133	NO_x and O₃ above a tropical rainforest: an analysis with a global and box model. *Atmospheric Chemistry and Physics*, **2010**, 10, 10607-10620	6.8	26
132	Extrapolating branch enclosure measurements to estimates of regional scale biogenic VOC fluxes in the northwestern Mediterranean basin. *Journal of Geophysical Research*, **2000**, 105, 11573-11583		26

131	The impact of local surface changes in Borneo on atmospheric composition at wider spatial scales: coastal processes, land-use change and air quality. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2011**, 366, 3210-24	5.8	25
130	Effects of fosmidomycin on plant photosynthesis as measured by gas exchange and chlorophyll fluorescence. *Photosynthesis Research*, **2010**, 104, 49-59	3.7	25
129	Measurement of carbon dioxide and hydrocarbon fluxes from a Sitka Spruce forest using micrometeorological techniques. *Journal of Geophysical Research*, **1996**, 101, 22807-22815		25
128	Atmospheric mixing ratios of methyl ethyl ketone (2-butanone) in tropical, boreal, temperate and marine environments. *Atmospheric Chemistry and Physics*, **2016**, 16, 10965-10984	6.8	24
127	Application of passive samplers to the monitoring of low concentration organic vapours in indoor and ambient air: A review. *Environmental Technology (United Kingdom)*, **1991**, 12, 1055-1062	2.6	24
126	Behavior of urban dust contaminated by Chernobyl fallout: environmental half-lives and transfer coefficients. *Environmental Science & Technology*, **1992**, 26, 2142-2147	10.3	22
125	Measurements of alkyllead compounds in the gas and aerosol phase in urban and rural atmospheres. *Science of the Total Environment*, **1985**, 44, 235-44	10.2	22
124	Evaluating the sensitivity of radical chemistry and ozone formation to ambient VOCs and NO_{<i>x</i>} in Beijing. *Atmospheric Chemistry and Physics*, **2021**, 21, 2125-2147	6.8	22
123	Concentrations of selected volatile organic compounds at kerbside and background sites in central London. *Atmospheric Environment*, **2014**, 95, 456-467	5.3	21
122	Effects of the spatial resolution of climate data on estimates of biogenic isoprene emissions. *Atmospheric Environment*, **2013**, 70, 1-6	5.3	21
121	Biogenic emissions of volatile organic compounds from gorse (Ulex europaeus): Diurnal emission fluxes at Kelling Heath, England. *Journal of Geophysical Research*, **1997**, 102, 18903-18915		21
120	The solubility and partitioning of atmospherically derived trace metals in artificial and natural waters: A review. *Atmospheric Environment Part A General Topics*, **1993**, 27, 1567-1578		21
119	Understanding ozone plant chemistry. *Environmental Science & Technology*, **1992**, 26, 1890-1891	10.3	21
118	Formation and decomposition of trialkyllead compounds in the atmosphere. *Environmental Science & Technology*, **1986**, 20, 797-802	10.3	21
117	Airborne determination of the temporo-spatial distribution of benzene, toluene, nitrogen oxides and ozone in the boundary layer across Greater London, UK. *Atmospheric Chemistry and Physics*, **2015**, 15, 5083-5097	6.8	20
116	A Lagrangian model of air-mass photochemistry and mixing using a trajectory ensemble: the Cambridge Tropospheric Trajectory model of Chemistry And Transport (CiTTyCAT) version 4.2. *Geoscientific Model Development*, **2012**, 5, 193-221	6.3	20
115	Critical issues in trace gas biogeochemistry and global change. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 1629-42	3	20
114	The deposition of selected pollutants adjacent to a major rural highway. *Atmospheric Environment Part A General Topics*, **1991**, 25, 979-983		20

113	Canopy-scale flux measurements and bottom-up emission estimates of volatile organic compounds from a mixed oak and hornbeam forest in northern Italy. *Atmospheric Chemistry and Physics*, **2016**, 16, 7149-7170	6.8	19
112	Emissions of biogenic volatile organic compounds and subsequent photochemical production of secondary organic aerosol in mesocosm studies of temperate and tropical plant species. *Atmospheric Chemistry and Physics*, **2014**, 14, 12781-12801	6.8	19
111	The determination of individual gaseous ionic alkyllead species in the atmosphere. *Analytica Chimica Acta*, **1986**, 188, 229-238	6.6	19
110	Plant pest and disease diagnosis using electronic nose and support vector machine approach. *Journal of Plant Diseases and Protection*, **2012**, 119, 200-207	1.5	18
109	Passive sampling and gas chromatographic determination of low concentrations of reactive hydrocarbons in ambient air with reduction gas detector. *Journal of Chromatography A*, **1993**, 648, 191-197	4.5	18
108	The environmental half-lives and mean residence times of contaminants in dust for an urban environment: Barrow-in-Furness. *Science of the Total Environment*, **1990**, 93, 403-10	10.2	18
107	VOC emission rates over London and South East England obtained by airborne eddy covariance. *Faraday Discussions*, **2017**, 200, 599-620	3.6	17
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105	Organic lead compounds in vehicle exhaust. *Applied Organometallic Chemistry*, **1988**, 2, 95-100	3.1	17
104	Measurements of traffic-dominated pollutant emissions in a Chinese megacity. *Atmospheric Chemistry and Physics*, **2020**, 20, 8737-8761	6.8	17
103	Observations of highly oxidized molecules and particle nucleation in the atmosphere of Beijing. *Atmospheric Chemistry and Physics*, **2019**, 19, 14933-14947	6.8	17
102	Resource acquisition, distribution and end-use efficiencies and the growth of industrial society. *Earth System Dynamics*, **2015**, 6, 689-702	4.8	16
101	Avoiding high ozone pollution in Delhi, India. *Faraday Discussions*, **2021**, 226, 502-514	3.6	16
100	Simulated effects of changes in direct and diffuse radiation on canopy scale isoprene emissions from vegetation following volcanic eruptions. *Atmospheric Chemistry and Physics*, **2011**, 11, 11723-11731	6.8	15
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97	Investigating the impacts of anthropogenic and biogenic VOC emissions and elevated temperatures during the 2003 ozone episode in the UK. *Atmospheric Environment*, **2013**, 74, 393-401	5.3	14
96	Detection methods for the analysis of biogenic non-methane hydrocarbons in air. *Journal of Chromatography A*, **1995**, 710, 39-50	4.5	13

95	A model of environmental behaviour of contaminated dust and its application to determining dust fluxes and residence times. *Atmospheric Environment*, **1994**, 28, 679-687	5.3	13
94	Emissions of intermediate-volatility and semi-volatile organic compounds from domestic fuels used in Delhi, India. *Atmospheric Chemistry and Physics*, **2021**, 21, 2407-2426	6.8	13
93	The effect of ozone fumigation on the biogenic volatile organic compounds (BVOCs) emitted from Brassica napus above- and below-ground. *PLoS ONE*, **2018**, 13, e0208825	3.7	13
92	Quantification of VOC emission rates from the biosphere. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 937-944	14.6	12
91	Controlled environment fumigation chambers for the study of reactive air pollutant effects on plants. *Atmospheric Environment Part A General Topics*, **1993**, 27, 679-683		12
90	The trace metal dissolution kinetics of three rural atmospheric aerosols in a range of natural fresh water types. *Water Research*, **1993**, 27, 243-254	12.5	12
89	Development and application of a Lagrangian model to determine the origins of ozone episodes in the UK. *Atmospheric Environment*, **2010**, 44, 631-641	5.3	11
88	The role of isoprene in insect herbivory. *Plant Signaling and Behavior*, **2008**, 3, 1141-2	2.5	11
87	Methane: importance, sources and sinks.143-151		11
86	Hybrid life-cycle assessment for robust, best-practice carbon accounting. *Journal of Cleaner Production*, **2019**, 208, 35-43	10.3	11
85	Sources of non-methane hydrocarbons in surface air in Delhi, India. *Faraday Discussions*, **2021**, 226, 409-426	3.6	11
84	Emission rates of C8–15 VOCs from seaweed and sand in the inter-tidal zone at Mace Head, Ireland. *Atmospheric Environment*, **2002**, 36, 5311-5321	5.3	10
83	Quasi-Lagrangian investigation into dimethyl sulfide oxidation in maritime air using a combination of measurements and model. *Journal of Geophysical Research*, **2000**, 105, 26379-26392		10
82	Impact of Biofuel Poplar Cultivation on Ground-Level Ozone and Premature Human Mortality Depends on Cultivar Selection and Planting Location. *Environmental Science & Technology*, **2015**, 49, 8566-75	10.3	9
81	Isoprene emission potentials from European oak forests derived from canopy flux measurements: an assessment of uncertainties and inter-algorithm variability. *Biogeosciences*, **2017**, 14, 5571-5594	4.6	9
80	A futures-based analysis for urban air quality remediation. *Proceedings of the Institution of Civil Engineers: Engineering Sustainability*, **2012**, 165, 21-36	0.9	9
79	Field measurements of dimethyl sulphide and its oxidation products in the atmosphere. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1997**, 352, 183-189	5.8	9
78	Elucidation of the tropospheric reactions of biogenic sulfur species from a field measurement campaign in NW Scotland. *Chemosphere*, **1994**, 28, 543-557	8.4	9

77	Emissions of non-methane volatile organic compounds from combustion of domestic fuels in Delhi, India. *Atmospheric Chemistry and Physics*, **2021**, 21, 2383-2406	6.8	9
76	Mapping gas-phase organic reactivity and concomitant secondary organic aerosol formation: chemometric dimension reduction techniques for the deconvolution of complex atmospheric data sets. *Atmospheric Chemistry and Physics*, **2015**, 15, 8077-8100	6.8	8
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74	Gas chromatographic determination of volatile alkenes with on-column bromination and electron-capture detection. *Journal of Chromatography A*, **1995**, 690, 187-195	4.5	7
73	Kinetics of dissolution of lead and zinc from rural atmospheric aerosols in freshwater and synthetic solutions. *Water Research*, **1994**, 28, 1703-1709	12.5	7
72	Sampling of gaseous alkyllead compounds using cryotrapping: Validation and field results. *Science of the Total Environment*, **1989**, 84, 211-221	10.2	7
71	Development of sensitive GC-AAS instrumentation for analysis of organometallic species in the environment. *International Journal of Environmental Analytical Chemistry*, **1985**, 21, 89-104	1.8	7
70	Can a global model chemical mechanism reproduce NO, NO₂, and O₃ measurements above a tropical rainforest?		7
69	Emissions of VOCs from Stressed and Unstressed Vegetation **1997**, 366-371		7
68	Nitrous oxide: importance, sources and sinks.201-206		7
67	Modelling chemistry in the nocturnal boundary layer above tropical rainforest and a generalised effective nocturnal ozone deposition velocity for sub-ppbv NOx conditions. *Journal of Atmospheric Chemistry*, **2010**, 65, 89-110	3.2	6
66	Assessing, mapping and quantifying the distribution of foliar biomass in Great Britain. *Biomass and Bioenergy*, **2008**, 32, 838-856	5.3	6
65	Temporal patterns, sources, and sinks of C8-C16 hydrocarbons in the atmosphere of Mace Head, Ireland. *Journal of Geophysical Research*, **2002**, 107, PAR 4-1		6
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62	Environmental analysis using gas chromatography atomic absorption spectrometry. *TrAC - Trends in Analytical Chemistry*, **1985**, 4, 8-11	14.6	6
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