

Jacqueline Fiona Hamilton

List of Publications by Year in descending order

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72
papers

2,992
citations

147726

31
h-index

182361

51
g-index

81
all docs

81
docs citations

81
times ranked

3988
citing authors

#	ARTICLE	IF	CITATIONS
1	A Four Carbon Organonitrate as a Significant Product of Secondary Isoprene Chemistry. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	8
2	Sources of non-methane hydrocarbons in surface air in Delhi, India. <i>Faraday Discussions</i> , 2021, 226, 409-431.	1.6	23
3	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.	1.6	13
4	Comprehensive organic emission profiles, secondary organic aerosol production potential, and OH reactivity of domestic fuel combustion in Delhi, India. <i>Environmental Science Atmospheres</i> , 2021, 1, 104-117.	0.9	11
5	Key Role of NO ₃ Radicals in the Production of Isoprene Nitrates and Nitroxyorganosulfates in Beijing. <i>Environmental Science & Technology</i> , 2021, 55, 842-853.	4.6	18
6	Emissions of non-methane volatile organic compounds from combustion of domestic fuels in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2383-2406.	1.9	29
7	Low-NO atmospheric oxidation pathways in a polluted megacity. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1613-1625.	1.9	24
8	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.	1.9	64
9	Emissions of intermediate-volatility and semi-volatile organic compounds from domestic fuels used in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2407-2426.	1.9	33
10	An Automated Methodology for Non-targeted Compositional Analysis of Small Molecules in High Complexity Environmental Matrices Using Coupled Ultra Performance Liquid Chromatography Orbitrap Mass Spectrometry. <i>Environmental Science & Technology</i> , 2021, 55, 7365-7375.	4.6	18
11	Atmospheric Chemistry of 2-Amino-2-methyl-1-propanol: A Theoretical and Experimental Study of the OH-Initiated Degradation under Simulated Atmospheric Conditions. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7502-7519.	1.1	5
12	Importance of Oxidants and Temperature in the Formation of Biogenic Organosulfates and Nitrooxy Organosulfates. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2291-2306.	1.2	13
13	In situ ozone production is highly sensitive to volatile organic compounds in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13609-13630.	1.9	28
14	Emission estimates and inventories of non-methane volatile organic compounds from anthropogenic burning sources in India. <i>Atmospheric Environment: X</i> , 2021, 11, 100115.	0.8	6
15	Non-methane volatile organic compounds emitted from domestic fuels in Delhi: Emission factors and total city-wide emissions. <i>Atmospheric Environment: X</i> , 2021, 11, 100127.	0.8	5
16	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.	1.1	10
17	Measurements of traffic-dominated pollutant emissions in a Chinese megacity. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8737-8761.	1.9	33
18	An increasing role for solvent emissions and implications for future measurements of volatile organic compounds. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190328.	1.6	22

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19	Aromatic Photo-oxidation, A New Source of Atmospheric Acidity. <i>Environmental Science & Technology</i> , 2020, 54, 7798-7806.	4.6	43
20	New Approach Combining Molecular Fingerprints and Machine Learning to Estimate Relative Ionization Efficiency in Electrospray Ionization. <i>ACS Omega</i> , 2020, 5, 9510-9516.	1.6	11
21	Strong anthropogenic control of secondary organic aerosol formation from isoprene in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7531-7552.	1.9	35
22	A comparison of PM _{2.5} -bound polycyclic aromatic hydrocarbons in summer Beijing (China) and Delhi (India). <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14303-14319.	1.9	30
23	Elevated levels of OH observed in haze events during wintertime in central Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14847-14871.	1.9	62
24	Evaluation of the chemical composition of gas- and particle-phase products of aromatic oxidation. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9783-9803.	1.9	39
25	An interlaboratory comparison of aerosol inorganic ion measurements by ion chromatography: implications for aerosol pH estimate. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6325-6341.	1.2	16
26	Variability of polycyclic aromatic hydrocarbons and their oxidative derivatives in wintertime Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8741-8758.	1.9	40
27	A new aerosol flow reactor to study secondary organic aerosol. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4519-4541.	1.2	10
28	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.	1.9	95
29	Chemical characterisation of water-soluble ions in atmospheric particulate matter on the east coast of Peninsular Malaysia. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1537-1553.	1.9	30
30	Theoretical and Experimental Study on the Reaction of <i>tert</i> -Butylamine with OH Radicals in the Atmosphere. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4470-4480.	1.1	13
31	Water-Soluble Organic Composition of the Arctic Sea Surface Microlayer and Association with Ice Nucleation Ability. <i>Environmental Science & Technology</i> , 2018, 52, 1817-1826.	4.6	23
32	Ozonolysis of α -pinellene " Part 2: Compositional analysis of secondary organic aerosol highlights the role of stabilised Criegee intermediates. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4673-4693.	1.9	11
33	Technical note: Use of an atmospheric simulation chamber to investigate the effect of different engine conditions on unregulated VOC-IVOC diesel exhaust emissions. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11073-11096.	1.9	21
34	Redox Couple Involving NO _x in Aerobic Pd-Catalyzed Oxidation of sp ³ -C-H Bonds: Direct Evidence for Pd-NO ₃ ⁺ /NO ₂ ⁺ Interactions Involved in Oxidation and Reductive Elimination. <i>Journal of the American Chemical Society</i> , 2017, 139, 1177-1190.	6.6	31
35	Accurate representations of the physicochemical properties of atmospheric aerosols: when are laboratory measurements of value?. <i>Faraday Discussions</i> , 2017, 200, 639-661.	1.6	23
36	The import and export of organic nitrogen species at a Scottish ombrotrophic peatland. <i>Biogeosciences</i> , 2016, 13, 2353-2365.	1.3	5

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37	Development of a Combined Heart-Cut and Comprehensive Two-Dimensional Gas Chromatography System to Extend the Carbon Range of Volatile Organic Compounds Analysis in a Single Instrument. <i>Separations</i> , 2016, 3, 21.	1.1	4
38	Indoor terpene emissions from cooking with herbs and pepper and their secondary organic aerosol production potential. <i>Scientific Reports</i> , 2016, 6, 36623.	1.6	51
39	Simulating secondary organic aerosol from missing diesel-related intermediate-volatility organic compound emissions during the Clean Air for London (ClearLo) campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6453-6473.	1.9	60
40	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.	1.9	73
41	Characterization of Gas-Phase Organics Using Proton Transfer Reaction Time-of-Flight Mass Spectrometry: Cooking Emissions. <i>Environmental Science & Technology</i> , 2016, 50, 1243-1250.	4.6	97
42	Atmospheric ethanol in London and the potential impacts of future fuel formulations. <i>Faraday Discussions</i> , 2016, 189, 105-120.	1.6	16
43	Protein sequences bound to mineral surfaces persist into deep time. <i>ELife</i> , 2016, 5, .	2.8	176
44	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.	1.2	76
45	Comparative study of comprehensive gas chromatography-nitrogen chemiluminescence detection and gas chromatography-ion trap-tandem mass spectrometry for determining nicotine and carcinogen organic nitrogen compounds in thirdhand tobacco smoke. <i>Journal of Chromatography A</i> , 2015, 1426, 191-200.	1.8	20
46	The Molecular Identification of Organic Compounds in the Atmosphere: State of the Art and Challenges. <i>Chemical Reviews</i> , 2015, 115, 3919-3983.	23.0	417
47	Insights into the Formation and Evolution of Individual Compounds in the Particulate Phase during Aromatic Photo-Oxidation. <i>Environmental Science & Technology</i> , 2015, 49, 13168-13178.	4.6	42
48	Estimated Exposure Risks from Carcinogenic Nitrosamines in Urban Airborne Particulate Matter. <i>Environmental Science & Technology</i> , 2015, 49, 9648-9656.	4.6	51
49	Improving the Quantification of Secondary Organic Aerosol Using a Microflow Reactor Coupled to HPLC-MS and NMR to Manufacture Ad Hoc Calibration Standards. <i>Analytical Chemistry</i> , 2014, 86, 11238-11245.	3.2	17
50	Effect of roasting method and oil reduction on volatiles of roasted <i>Pistacia terebinthus</i> using direct thermal desorption-GCxGC-TOF/MS. <i>LWT - Food Science and Technology</i> , 2014, 59, 283-288.	2.5	13
51	Exposure to nitrosamines in thirdhand tobacco smoke increases cancer risk in non-smokers. <i>Environment International</i> , 2014, 71, 139-147.	4.8	87
52	A compact comprehensive two-dimensional gas chromatography (GC \times GC) approach for the analysis of biogenic VOCs. <i>Analytical Methods</i> , 2013, 5, 141-150.	1.3	13
53	Online and offline mass spectrometric study of the impact of oxidation and ageing on glyoxal chemistry and uptake onto ammonium sulfate aerosols. <i>Faraday Discussions</i> , 2013, 165, 447.	1.6	30
54	Determination of nicotine and N-nitrosamines in house dust by pressurized liquid extraction and comprehensive gas chromatography \times Nitrogen chemiluminescence detection. <i>Journal of Chromatography A</i> , 2012, 1219, 180-187.	1.8	57

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55	New Sensitive and Quantitative Analysis Method for Organic Nitrogen Compounds in Urban Aerosol Samples. <i>Environmental Science & Technology</i> , 2011, 45, 1497-1505.	4.6	49
56	Determination of airborne carbonyls via pentafluorophenylhydrazine derivatisation by GC-MS and its comparison with HPLC method. <i>Talanta</i> , 2011, 85, 406-414.	2.9	47
57	The application of two total transfer valve modulators for comprehensive two-dimensional gas chromatography of volatile organic compounds. <i>Journal of Separation Science</i> , 2011, 34, 812-821.	1.3	14
58	Alkyl nitrate photochemistry during the tropospheric organic chemistry experiment. <i>Atmospheric Environment</i> , 2010, 44, 773-785.	1.9	26
59	Microfabricated planar glass gas chromatography with photoionization detection. <i>Journal of Chromatography A</i> , 2010, 1217, 768-774.	1.8	53
60	Analysis of Organic Nitrogen Compounds in Urban Aerosol Samples Using GCxGC-TOF/MS. <i>Aerosol Science and Technology</i> , 2010, 44, 109-116.	1.5	45
61	Using Comprehensive Two-Dimensional Gas Chromatography to Study the Atmosphere. <i>Journal of Chromatographic Science</i> , 2010, 48, 274-282.	0.7	40
62	Determination of volatile nitrosamines in various meat products using comprehensive gas chromatography-nitrogen chemiluminescence detection. <i>Food and Chemical Toxicology</i> , 2010, 48, 3268-3273.	1.8	79
63	Measurement and calculation of OH reactivity at a United Kingdom coastal site. <i>Journal of Atmospheric Chemistry</i> , 2009, 64, 53-76.	1.4	38
64	Observations of an atmospheric chemical equator and its implications for the tropical warm pool region. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	31
65	Characterization of Polar Compounds and Oligomers in Secondary Organic Aerosol Using Liquid Chromatography Coupled to Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 474-480.	3.2	48
66	FORMATION OF OXYGENATED-POLYCYCLIC AROMATIC COMPOUNDS IN AEROSOL FROM THE PHOTO-OXIDATION OF o-TOLUALDEHYDE. <i>Polycyclic Aromatic Compounds</i> , 2006, 26, 237-252.	1.4	10
67	Quantifying small molecules in secondary organic aerosol formed during the photo-oxidation of toluene with hydroxyl radicals. <i>Atmospheric Environment</i> , 2005, 39, 7263-7275.	1.9	139
68	Analysis of volatile components from <i>Ziziphora taurica</i> subsp. <i>taurica</i> by steam distillation, superheated-water extraction, and direct thermal desorption with GC-TOFMS. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 115-119.	1.9	47
69	Modelling the ambient distribution of organic compounds during the August 2003 ozone episode in the southern UK. <i>Faraday Discussions</i> , 2005, 130, 311.	1.6	43
70	Monoaromatic complexity in urban air and gasoline assessed using comprehensive GC and fast GC-TOF/MS. <i>Atmospheric Environment</i> , 2003, 37, 589-602.	1.9	42
71	Peak amplitude and resolution in comprehensive gas chromatography using valve modulation. <i>Journal of Separation Science</i> , 2003, 26, 578-584.	1.3	23
72	<i>Chromatographic Methods</i> , 0, , 361-405.		2