

# Kevin G Mcadam

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,885  
citations

236612

25  
h-index

276539

41  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1683  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Composition of Aerosol from an E-Cigarette: A Quantitative Comparison with Cigarette Smoke. <i>Chemical Research in Toxicology</i> , 2016, 29, 1662-1678.	1.7	317
2	Assessment of novel tobacco heating product THP1.0. Part 3: Comprehensive chemical characterisation of harmful and potentially harmful aerosol emissions. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 93, 14-33.	1.3	122
3	Assessment of tobacco heating product THP1.0. Part 2: Product design, operation and thermophysical characterisation. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 93, 4-13.	1.3	77
4	Variation in tobacco and mainstream smoke toxicant yields from selected commercial cigarette products. <i>Regulatory Toxicology and Pharmacology</i> , 2015, 71, 409-427.	1.3	72
5	Tobacco pyrolysis. Kinetic evaluation of thermogravimetric and mass spectrometric experiments. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 86, 310-322.	2.6	65
6	Reduction of aldehydes and hydrogen cyanide yields in mainstream cigarette smoke using an amine functionalised ion exchange resin. <i>Chemistry Central Journal</i> , 2011, 5, 15.	2.6	60
7	Multivariate analysis of mainstream tobacco smoke particulate phase by headspace solid-phase micro extraction coupled with comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1370, 216-229.	1.8	57
8	Assessing modified risk tobacco and nicotine products: Description of the scientific framework and assessment of a closed modular electronic cigarette. <i>Regulatory Toxicology and Pharmacology</i> , 2017, 90, 342-357.	1.3	50
9	An experimental method to study emissions from heated tobacco between 100-200°C. <i>Chemistry Central Journal</i> , 2015, 9, 20.	2.6	46
10	UV absorption spectra of HO <sub>2</sub> and CH <sub>3</sub> O <sub>2</sub> radicals and the kinetics of their mutual reactions at 298 K. <i>Chemical Physics Letters</i> , 1987, 133, 39-44.	1.2	45
11	The use of a novel tobacco treatment process to reduce toxicant yields in cigarette smoke. <i>Food and Chemical Toxicology</i> , 2011, 49, 1904-1917.	1.8	42
12	Patterns and behaviors of snus consumption in Sweden. <i>Nicotine and Tobacco Research</i> , 2009, 11, 1175-1181.	1.4	40
13	Polycyclic aromatic hydrocarbons in US and Swedish smokeless tobacco products. <i>Chemistry Central Journal</i> , 2013, 7, 151.	2.6	38
14	Spectroscopic Studies on Nicotine and Nornicotine in the UV Region. <i>Chirality</i> , 2013, 25, 288-293.	1.3	37
15	A novel hybrid tobacco product that delivers a tobacco flavour note with vapour aerosol (Part 1): Product operation and preliminary aerosol chemistry assessment. <i>Food and Chemical Toxicology</i> , 2017, 106, 522-532.	1.8	36
16	Pyrolysis and combustion of tobacco in a cigarette smoking simulator under air and nitrogen atmosphere. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 419-430.	1.9	34
17	Analysis of mainstream tobacco smoke particulate phase using comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry. <i>Journal of Separation Science</i> , 2013, 36, 1037-1044.	1.3	33
18	Use of Classical Adsorption Theory to Understand the Dynamic Filtration of Volatile Toxicants in Cigarette Smoke by Active Carbons. <i>Adsorption Science and Technology</i> , 2011, 29, 117-138.	1.5	32

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19	Microprobe sampling—Photo ionization-time-of-flight mass spectrometry for in situ chemical analysis of pyrolysis and combustion gases: Examination of the thermo-chemical processes within a burning cigarette. <i>Analytica Chimica Acta</i> , 2012, 714, 104-113.	2.6	30
20	Analysis of hydrazine in smokeless tobacco products by gas chromatography—mass spectrometry. <i>Chemistry Central Journal</i> , 2015, 9, 13.	2.6	30
21	Acetoin is a precursor to diacetyl in e-cigarette liquids. <i>Food and Chemical Toxicology</i> , 2019, 133, 110727.	1.8	30
22	Thermogravimetric Analysis of Tobacco Combustion Assuming DAEM Devolatilization and Empirical Char-Burnoff Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 1591-1599.	1.8	29
23	The in vitro cytotoxicity and genotoxicity of cigarette smoke particulate matter with reduced toxicant yields. <i>Toxicology in Vitro</i> , 2013, 27, 1533-1541.	1.1	28
24	Approaches for the design of reduced toxicant emission cigarettes. <i>SpringerPlus</i> , 2014, 3, 374.	1.2	27
25	E-cigarette Nicotine Delivery: Data and Learnings from Pharmacokinetic Studies. <i>American Journal of Health Behavior</i> , 2017, 41, 16-32.	0.6	26
26	Evaluation of flavourings potentially used in a heated tobacco product: Chemical analysis, in vitro mutagenicity, genotoxicity, cytotoxicity and in vitro tumour promoting activity. <i>Food and Chemical Toxicology</i> , 2018, 118, 940-952.	1.8	26
27	The Evolving E-cigarette: Comparative Chemical Analyses of E-cigarette Vapor and Cigarette Smoke. <i>Frontiers in Toxicology</i> , 2020, 2, 586674.	1.6	26
28	Determination of total arsenic and arsenic speciation in tobacco products: from tobacco leaf and cigarette smoke. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1633.	1.6	25
29	The effect of a novel tobacco process on the in vitro cytotoxicity and genotoxicity of cigarette smoke particulate matter. <i>Toxicology in Vitro</i> , 2012, 26, 1022-1029.	1.1	23
30	Assessment of tobacco heating product THP1.0. Part 9: The placement of a range of next-generation products on an emissions continuum relative to cigarettes via pre-clinical assessment studies. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 93, 92-104.	1.3	23
31	The Chemical Complexity of e-Cigarette Aerosols Compared With the Smoke From a Tobacco Burning Cigarette. <i>Frontiers in Chemistry</i> , 2021, 9, 743060.	1.8	23
32	Influence of cigarette circumference on smoke chemistry, biological activity, and smoking behaviour. <i>Regulatory Toxicology and Pharmacology</i> , 2016, 82, 111-126.	1.3	22
33	Complementary HPLC-ICP-MS and synchrotron X-ray absorption spectroscopy for speciation analysis of chromium in tobacco samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1818-1829.	1.6	21
34	Changes in levels of biomarkers of exposure observed in a controlled study of smokers switched from conventional to reduced toxicant prototype cigarettes. <i>Regulatory Toxicology and Pharmacology</i> , 2013, 66, 147-162.	1.3	20
35	Spectroscopic investigations into the acid—base properties of nicotine at different temperatures. <i>Analytical Methods</i> , 2013, 5, 81-88.	1.3	20
36	The UK Smoke Constituents Testing Study. Summary of Results and Comparison with Other Studies. <i>Beitrag Zur Tabakforschung International/ Contributions To Tobacco Research</i> , 2004, 21, 117-138.	0.3	19

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37	Multi-analyte approach for determining the extraction of tobacco constituents from pouched snus by consumers during use. <i>Chemistry Central Journal</i> , 2013, 7, 55.	2.6	18
38	Thermo-oxidative decomposition of lime, bergamot and cardamom essential oils. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 134, 552-561.	2.6	18
39	Use of social media to establish vapers puffing behaviour: Findings and implications for laboratory evaluation of e-cigarette emissions. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 107, 104423.	1.3	18
40	Highly Time-Resolved Imaging of Combustion and Pyrolysis Product Concentrations in Solid Fuel Combustion: NO Formation in a Burning Cigarette. <i>Analytical Chemistry</i> , 2015, 87, 1711-1717.	3.2	17
41	The acrylamide content of smokeless tobacco products. <i>Chemistry Central Journal</i> , 2015, 9, 56.	2.6	17
42	Influence of machine-based puffing parameters on aerosol and smoke emissions from next generation nicotine inhalation products. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 101, 156-165.	1.3	16
43	High-resolution time and spatial imaging of tobacco and its pyrolysis products during a cigarette puff by microprobe sampling photoionisation mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2293-2299.	1.9	12
44	Analysis of coumarin and angelica lactones in smokeless tobacco products. <i>Chemistry Central Journal</i> , 2018, 12, 142.	2.6	12
45	Ethyl carbamate in Swedish and American smokeless tobacco products and some factors affecting its concentration. <i>Chemistry Central Journal</i> , 2018, 12, 86.	2.6	12
46	Thermo-oxidative degradation of aromatic flavour compounds under simulated tobacco heating product condition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 134, 405-414.	2.6	10
47	Effect of Machine Smoking Intensity and Filter Ventilation Level on Gas-Phase Temperature Distribution Inside a Burning Cigarette. <i>Beitrage Zur Tabakforschung International/ Contributions To Tobacco Research</i> , 2015, 26, .	0.3	9
48	Comprehensive survey of radionuclides in contemporary smokeless tobacco products. <i>Chemistry Central Journal</i> , 2017, 11, 131.	2.6	9
49	Fractionation of cadmium in tobacco and cigarette smoke condensate using XANES and sequential leaching with ICP-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6795-6806.	1.9	9
50	Empirical characterisation of ranges of mainstream smoke toxicant yields from contemporary cigarette products using quantile regression methodology. <i>Regulatory Toxicology and Pharmacology</i> , 2015, 72, 458-472.	1.3	8
51	The composition of contemporary American and Swedish smokeless tobacco products. <i>BMC Chemistry</i> , 2019, 13, 31.	1.6	8
52	The science behind the development and performance of reduced ignition propensity cigarettes. <i>Fire Science Reviews</i> , 2016, 5, .	0.9	7
53	Integration of time and spatially resolved in-situ temperature and pressure measurements with soft ionisation mass spectrometry inside a burning superslim cigarette. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 135, 310-318.	2.6	7
54	Impact assessment of WHO TobReg proposals for mandated lowering of selected mainstream cigarette smoke toxicants. <i>Regulatory Toxicology and Pharmacology</i> , 2017, 86, 332-348.	1.3	6

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55	Integrating chemical, toxicological and clinical research to assess the potential of reducing health risks associated with cigarette smoking through reducing toxicant emissions. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 95, 102-114.	1.3	6
56	Identification of volatiles from heated tobacco biomass using direct thermogravimetric analysis—Mass spectrometry and target factor analysis. <i>Thermochimica Acta</i> , 2018, 668, 132-141.	1.2	6
57	Diacetyl and Other Ketones in e-Cigarette Aerosols: Some Important Sources and Contributing Factors. <i>Frontiers in Chemistry</i> , 2021, 9, 742538.	1.8	5
58	Editorial [Hot Topic: Recent Advances in Understanding of Cigarette Smoke Free Radicals and Their Relationship to Smoking Related Diseases (Guest Editors: Chuan Liu and Kevin McAdam)]. <i>Mini-Reviews in Organic Chemistry</i> , 2011, 8, 347-348.	0.6	1
59	Investigation of number of replicate measurements required to meet cigarette smoke chemistry regulatory requirements measured under Canadian intense smoking conditions. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 107, 104402.	1.3	1
60	Comparison of Mainstream Smoke Composition from CR20 Resin Filter and Empty-Cavity Filter Cigarettes by Headspace SPME Coupled with GC—GC TOFMS and Chemometric Analysis. <i>Beitrag Zur Tabakforschung International/ Contributions To Tobacco Research</i> , 2019, 28, 231-249.	0.3	1
61	Integration of Time and Spatially Resolved <i>In-Situ</i> Temperature and Pressure Measurements With Soft Ionisation Mass Spectrometry Inside Burning Superslim and King-Size Cigarettes. <i>Beitrag Zur Tabakforschung International/ Contributions To Tobacco Research</i> , 2020, 29, 44-54.	0.3	1