

Peyton Jacob 3rd

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

10,821
citations

71004

43
h-index

35168

102
g-index

107
all docs

107
docs citations

107
times ranked

10496
citing authors

#	ARTICLE	IF	CITATIONS
1	Levels of selected carcinogens and toxicants in vapour from electronic cigarettes. <i>Tobacco Control</i> , 2014, 23, 133-139.	1.8	1,324
2	Metabolism and Disposition Kinetics of Nicotine. <i>Pharmacological Reviews</i> , 2005, 57, 79-115.	7.1	1,298
3	Nicotine Chemistry, Metabolism, Kinetics and Biomarkers. <i>Handbook of Experimental Pharmacology</i> , 2009, , 29-60.	0.9	1,045
4	Improved gas chromatographic method for the determination of nicotine and cotinine in biologic fluids. <i>Biomedical Applications</i> , 1981, 222, 61-70.	1.7	426
5	Female sex and oral contraceptive use accelerate nicotine metabolism. <i>Clinical Pharmacology and Therapeutics</i> , 2006, 79, 480-488.	2.3	396
6	Nicotine metabolite ratio as an index of cytochrome P450 2A6 metabolic activity*1. <i>Clinical Pharmacology and Therapeutics</i> , 2004, 76, 64-72.	2.3	366
7	Thirdhand Tobacco Smoke: Emerging Evidence and Arguments for a Multidisciplinary Research Agenda. <i>Environmental Health Perspectives</i> , 2011, 119, 1218-1226.	2.8	355
8	Formation of carcinogens indoors by surface-mediated reactions of nicotine with nitrous acid, leading to potential <i>thirdhand smoke</i> hazards. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6576-6581.	3.3	351
9	Biochemical Verification of Tobacco Use and Abstinence: 2019 Update. <i>Nicotine and Tobacco Research</i> , 2020, 22, 1086-1097.	1.4	325
10	Exposure to Nicotine and Selected Toxicants in Cigarette Smokers Who Switched to Electronic Cigarettes: A Longitudinal Within-Subjects Observational Study. <i>Nicotine and Tobacco Research</i> , 2017, 19, 160-167.	1.4	234
11	Selected ion monitoring method for determination of nicotine, cotinine and deuterium-labeled analogs: Absence of an isotope effect in the clearance of (S)-nicotine-3 ¹⁵ N,3 ¹⁵ N-d2 in humans. <i>Biological Mass Spectrometry</i> , 1991, 20, 247-252.	0.5	219
12	Nicotine delivery, retention and pharmacokinetics from various electronic cigarettes. <i>Addiction</i> , 2016, 111, 535-544.	1.7	204
13	Determination of the nicotine metabolites cotinine and trans-3 ¹⁵ N-hydroxycotinine in biologic fluids of smokers and non-smokers using liquid chromatography-tandem mass spectrometry: Biomarkers for tobacco smoke exposure and for phenotyping cytochrome P450 2A6 activity. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 267-276.	1.2	185
14	Thirdhand Smoke: New Evidence, Challenges, and Future Directions. <i>Chemical Research in Toxicology</i> , 2017, 30, 270-294.	1.7	178
15	Smoking Behavior and Exposure to Tobacco Toxicants during 6 Months of Smoking Progressively Reduced Nicotine Content Cigarettes. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2012, 21, 761-769.	1.1	132
16	Elimination Kinetics of the Tobacco-Specific Biomarker and Lung Carcinogen 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanol. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2009, 18, 3421-3425.	1.1	131
17	Thirdhand smoke causes DNA damage in human cells. <i>Mutagenesis</i> , 2013, 28, 381-391.	1.0	131
18	Nicotine and Carcinogen Exposure with Smoking of Progressively Reduced Nicotine Content Cigarette. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2007, 16, 2479-2485.	1.1	130

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19	Comparison of Urine Cotinine and the Tobacco-Specific Nitrosamine Metabolite 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanol (NNAL) and Their Ratio to Discriminate Active From Passive Smoking. <i>Nicotine and Tobacco Research</i> , 2011, 13, 202-208.	1.4	129
20	Comparison of Nicotine and Carcinogen Exposure with Water Pipe and Cigarette Smoking. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2013, 22, 765-772.	1.1	128
21	Cigarette Smoke Toxins Deposited on Surfaces: Implications for Human Health. <i>PLoS ONE</i> , 2014, 9, e86391.	1.1	125
22	Nicotine, Carbon Monoxide, and Carcinogen Exposure after a Single Use of a Water Pipe. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2011, 20, 2345-2353.	1.1	113
23	Racial Differences in the Relationship Between Number of Cigarettes Smoked and Nicotine and Carcinogen Exposure. <i>Nicotine and Tobacco Research</i> , 2011, 13, 772-783.	1.4	105
24	Subpicogram per Milliliter Determination of the Tobacco-Specific Carcinogen Metabolite 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanol in Human Urine Using Liquid Chromatography-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 8115-8121.	3.2	104
25	Exposure and Kinetics of Polycyclic Aromatic Hydrocarbons (PAHs) in Cigarette Smokers. <i>Chemical Research in Toxicology</i> , 2012, 25, 952-964.	1.7	102
26	Reproducibility of the Nicotine Metabolite Ratio in Cigarette Smokers. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2012, 21, 1105-1114.	1.1	96
27	Biomarkers of exposure to new and emerging tobacco delivery products. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L425-L452.	1.3	95
28	Environmental and biological monitoring of exposures to PAHs and ETS in the general population. <i>Environment International</i> , 2010, 36, 763-771.	4.8	92
29	Cigarette Smoke Exposure and the Acute Respiratory Distress Syndrome*. <i>Critical Care Medicine</i> , 2015, 43, 1790-1797.	0.4	92
30	Determination of Phenolic Metabolites of Polycyclic Aromatic Hydrocarbons in Human Urine as Their Pentafluorobenzyl Ether Derivatives Using Liquid Chromatography-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 587-598.	3.2	89
31	Characterization of Nicotine Salts in 23 Electronic Cigarette Refill Liquids. <i>Nicotine and Tobacco Research</i> , 2020, 22, 1239-1243.	1.4	85
32	Impact of e-liquid flavors on nicotine intake and pharmacology of e-cigarettes. <i>Drug and Alcohol Dependence</i> , 2017, 178, 391-398.	1.6	83
33	Thirdhand Cigarette Smoke: Factors Affecting Exposure and Remediation. <i>PLoS ONE</i> , 2014, 9, e108258.	1.1	76
34	Nicotine Delivery and Vaping Behavior during <i>ad libitum</i> E-cigarette Access. <i>Tobacco Regulatory Science</i> (discontinued), 2016, 2, 363-376.	0.2	71
35	Nicotine and Carcinogen Exposure after Water Pipe Smoking in Hookah Bars. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2014, 23, 1055-1066.	1.1	70
36	Interlaboratory comparability of serum cotinine measurements at smoker and nonsmoker concentration levels: A round-robin study. <i>Nicotine and Tobacco Research</i> , 2009, 11, 1458-1466.	1.4	65

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37	Biomarkers increase detection of active smoking and secondhand smoke exposure in critically ill patients*. Critical Care Medicine, 2011, 39, 40-45.	0.4	60
38	Anabasine and anatabine as biomarkers for tobacco use during nicotine replacement therapy. Cancer Epidemiology Biomarkers and Prevention, 2002, 11, 1668-73.	1.1	58
39	Children's Exposure to Secondhand and Thirdhand Smoke Carcinogens and Toxicants in Homes of Hookah Smokers. Nicotine and Tobacco Research, 2014, 16, 961-975.	1.4	57
40	Comparison of Systemic Exposure to Toxic and/or Carcinogenic Volatile Organic Compounds (VOC) during Vaping, Smoking, and Abstention. Cancer Prevention Research, 2020, 13, 153-162.	0.7	54
41	Thirdhand smoke contamination in hospital settings: assessing exposure risk for vulnerable paediatric patients: Table A1. Tobacco Control, 2016, 25, 619-623.	1.8	53
42	Presystemic metabolism of meperidine to normeperidine in normal and cirrhotic subjects. Clinical Pharmacology and Therapeutics, 1981, 30, 183-188.	2.3	48
43	Determination of Tobacco Smoke Exposure by Plasma Cotinine Levels in Infants and Children Attending Urban Public Hospital Clinics. JAMA Pediatrics, 2012, 166, 851.	3.6	48
44	Estimation of Nicotine Dose after Low-level Exposure Using Plasma and Urine Nicotine Metabolites. Cancer Epidemiology Biomarkers and Prevention, 2010, 19, 1160-1166.	1.1	46
45	Thirdhand Smoke: State of the Science and a Call for Policy Expansion. Public Health Reports, 2016, 131, 233-238.	1.3	43
46	Comparison of Urine 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanol and Cotinine for Assessment of Active and Passive Smoke Exposure in Urban Adolescents. Cancer Epidemiology Biomarkers and Prevention, 2018, 27, 254-261.	1.1	41
47	Determination of the nicotine metabolite trans-3-hydroxycotinine in urine of smokers using gas chromatography with nitrogen-selective detection or selected ion monitoring. Biomedical Applications, 1992, 583, 145-154.	1.7	40
48	Tobacco Alkaloids and Tobacco-Specific Nitrosamines in Dust from Homes of Smokeless Tobacco Users, Active Smokers, and Nontobacco Users. Chemical Research in Toxicology, 2015, 28, 1007-1014.	1.7	40
49	Attitudes and Practices of Hookah Smokers in the San Francisco Bay Area. Journal of Psychoactive Drugs, 2011, 43, 146-152.	1.0	39
50	Urine Menthol as a Biomarker of Mentholated Cigarette Smoking. Cancer Epidemiology Biomarkers and Prevention, 2010, 19, 3013-3019.	1.1	38
51	Urine Cotinine Underestimates Exposure to the Tobacco-Derived Lung Carcinogen 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanone in Passive Compared with Active Smokers. Cancer Epidemiology Biomarkers and Prevention, 2010, 19, 2795-2800.	1.1	37
52	Nicotelline: A Proposed Biomarker and Environmental Tracer for Particulate Matter Derived from Tobacco Smoke. Chemical Research in Toxicology, 2013, 26, 1615-1631.	1.7	37
53	An Electronic Cigarette Vaping Machine for the Characterization of Aerosol Delivery and Composition. Nicotine and Tobacco Research, 2017, 19, ntw147.	1.4	36
54	Racial differences in the relationship between tobacco dependence and nicotine and carcinogen exposure. Addiction, 2013, 108, 607-617.	1.7	35

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55	Intake of Toxic and Carcinogenic Volatile Organic Compounds from Secondhand Smoke in Motor Vehicles. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2014, 23, 2774-2782.	1.1	35
56	Thirdhand smoke: Chemical dynamics, cytotoxicity, and genotoxicity in outdoor and indoor environments. <i>Toxicology in Vitro</i> , 2016, 32, 220-231.	1.1	34
57	NEIL2 Protects against Oxidative DNA Damage Induced by Sidestream Smoke in Human Cells. <i>PLoS ONE</i> , 2014, 9, e90261.	1.1	34
58	Biomarkers of secondhand smoke exposure in automobiles. <i>Tobacco Control</i> , 2014, 23, 51-57.	1.8	33
59	Effect of reducing the nicotine content of cigarettes on cigarette smoking behavior and tobacco smoke toxicant exposure: 2-year follow up. <i>Addiction</i> , 2015, 110, 1667-1675.	1.7	33
60	Urine Metabolites for Estimating Daily Intake of Nicotine From Cigarette Smoking. <i>Nicotine and Tobacco Research</i> , 2020, 22, 288-292.	1.4	33
61	Exposure to Nicotine and Carcinogens among Southwestern Alaskan Native Cigarette Smokers and Smokeless Tobacco Users. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2012, 21, 934-942.	1.1	32
62	Determination of Ephedra Alkaloid and Caffeine Concentrations in Dietary Supplements and Biological Fluids. <i>Journal of Analytical Toxicology</i> , 2004, 28, 152-159.	1.7	31
63	Longer term exposure to secondhand smoke and health outcomes in COPD: Impact of urine 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanol. <i>Nicotine and Tobacco Research</i> , 2009, 11, 945-953.	1.4	31
64	Differences in nicotine intake and effects from electronic and combustible cigarettes among dual users. <i>Addiction</i> , 2020, 115, 757-767.	1.7	31
65	Progressive Commercial Cigarette Yield Reduction: Biochemical Exposure and Behavioral Assessment. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2009, 18, 876-883.	1.1	30
66	Early exposure to thirdhand cigarette smoke affects body mass and the development of immunity in mice. <i>Scientific Reports</i> , 2017, 7, 41915.	1.6	30
67	Short-term early exposure to thirdhand cigarette smoke increases lung cancer incidence in mice. <i>Clinical Science</i> , 2018, 132, 475-488.	1.8	30
68	A Casino goes smoke free: a longitudinal study of secondhand and thirdhand smoke pollution and exposure. <i>Tobacco Control</i> , 2018, 27, 643-649.	1.8	30
69	Relationship of Human Toenail Nicotine, Cotinine, and 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanol to Levels of These Biomarkers in Plasma and Urine. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2007, 16, 1382-1386.	1.1	29
70	Urine Cotinine Screening Detect Nearly Ubiquitous Tobacco Smoke Exposure in Urban Adolescents. <i>Nicotine and Tobacco Research</i> , 2017, 19, ntw390.	1.4	26
71	Synthesis of (3'R,5'S)-trans-3'-hydroxycotinine, a major metabolite of nicotine. Metabolic formation of 3'-hydroxycotinine in humans is highly stereoselective. <i>Journal of Medicinal Chemistry</i> , 1990, 33, 1888-1891.	2.9	25
72	Stability of the Nicotine Metabolite Ratio in Smokers of Progressively Reduced Nicotine Content Cigarettes. <i>Nicotine and Tobacco Research</i> , 2013, 15, 1939-1942.	1.4	24

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73	Cessation of alcohol consumption decreases rate of nicotine metabolism in male alcohol-dependent smokers. <i>Drug and Alcohol Dependence</i> , 2016, 163, 157-164.	1.6	24
74	Determination of 4-Hydroxy-3-methoxyphenylethylene Glycol 4-Sulfate in Human Urine Using Liquid Chromatography-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 5290-5296.	3.2	21
75	Levels of Cotinine in Dried Blood Specimens from Newborns as a Biomarker of Maternal Smoking Close to the Time of Delivery. <i>American Journal of Epidemiology</i> , 2013, 178, 1648-1654.	1.6	21
76	Brain Phenobarbital Uptake during Prolonged Status Epilepticus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1987, 7, 783-788.	2.4	18
77	Biomarkers of Exposure for Dual Use of Electronic Cigarettes and Combustible Cigarettes: Nicotelline, NNAL, and Total Nicotine Equivalents. <i>Nicotine and Tobacco Research</i> , 2020, 22, 1107-1113.	1.4	17
78	Collaborative Method Performance Study of the Measurement of Nicotine, Its Metabolites, and Total Nicotine Equivalents in Human Urine. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2018, 27, 1083-1090.	1.1	15
79	Identification and quantification of electronic cigarette exhaled aerosol residue chemicals in field sites. <i>Environmental Research</i> , 2019, 170, 351-358.	3.7	15
80	Thirdhand smoke associations with the gut microbiomes of infants admitted to a neonatal intensive care unit: An observational study. <i>Environmental Research</i> , 2021, 197, 111180.	3.7	15
81	Differences in exposure to toxic and/or carcinogenic volatile organic compounds between Black and White cigarette smokers. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2021, 31, 211-223.	1.8	14
82	Secondhand smoke exposure in Mexican discotheques. <i>Nicotine and Tobacco Research</i> , 2007, 9, 1021-1026.	1.4	13
83	Quantitative biochemical screening for marijuana use and concordance with tobacco use in urban adolescents. <i>Drug and Alcohol Dependence</i> , 2019, 205, 107583.	1.6	13
84	Induction via Functional Protein Stabilization of Hepatic Cytochromes P450 upon gp78/Autocrine Motility Factor Receptor (AMFR) Ubiquitin E3-Ligase Genetic Ablation in Mice: Therapeutic and Toxicological Relevance. <i>Molecular Pharmacology</i> , 2019, 96, 641-654.	1.0	11
85	Sources and Biomarkers of Secondhand Tobacco Smoke Exposure in Urban Adolescents. <i>Academic Pediatrics</i> , 2020, 20, 493-500.	1.0	11
86	Harmonization of acronyms for volatile organic compound metabolites using a standardized naming system. <i>International Journal of Hygiene and Environmental Health</i> , 2021, 235, 113749.	2.1	11
87	Thirdhand smoke exposure causes replication stress and impaired transcription in human lung cells. <i>Environmental and Molecular Mutagenesis</i> , 2020, 61, 635-646.	0.9	10
88	Different profiles of carcinogen exposure in Chinese compared with US cigarette smokers. <i>Tobacco Control</i> , 2015, 24, e258-e263.	1.8	9
89	Thirty Minute-Exposure to Aged Cigarette Smoke Increases Nasal Congestion in Nonsmokers. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2013, 76, 601-613.	1.1	8
90	Facile Pyridoxal-Catalyzed Racemization of Nornicotine and Related Compounds. <i>Journal of Organic Chemistry</i> , 1996, 61, 2916-2917.	1.7	7

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91	Butanediol Conversion to Gamma-Hydroxybutyrate Markedly Reduced by the Alcohol Dehydrogenase Blocker Fomepizole. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 105, 1196-1203.	2.3	7
92	Large Differences in Urinary Benzene Metabolite S-Phenylmercapturic Acid Quantitation: A Comparison of Five LC-MS-MS Methods. <i>Journal of Analytical Toxicology</i> , 2021, 45, 657-665.	1.7	6
93	Effect of race and glucuronidation rates on the relationship between nicotine metabolite ratio and nicotine clearance. <i>Pharmacogenetics and Genomics</i> , 2021, 31, 97-107.	0.7	6
94	Genetic background influences the effect of thirdhand smoke exposure on anxiety and memory in Collaborative Cross mice. <i>Scientific Reports</i> , 2021, 11, 13285.	1.6	6
95	Relationship between skin melanin index and nicotine pharmacokinetics in African American smokers. <i>Drug and Alcohol Dependence</i> , 2019, 204, 107474.	1.6	5
96	Urinary NNAL in hookah smokers and non-smokers after attending a hookah social event in a hookah lounge or a private home. <i>Regulatory Toxicology and Pharmacology</i> , 2017, 89, 74-82.	1.3	4
97	3-Ethenylpyridine Measured in Urine of Active and Passive Smokers: A Promising Biomarker and Toxicological Implications. <i>Chemical Research in Toxicology</i> , 2021, 34, 1630-1639.	1.7	4
98	Biomarkers of nicotine exposure correlate with the Hooked on Nicotine Checklist among adolescents in California, United States. <i>Addictive Behaviors</i> , 2022, 128, 107235.	1.7	4
99	Dose-independent kinetics with low level exposure to nicotine and cotinine. <i>British Journal of Clinical Pharmacology</i> , 2013, 75, 277-279.	1.1	3
100	Adhesion and Removal of Thirdhand Smoke from Indoor Fabrics: A Method for Rapid Assessment and Identification of Chemical Repositories. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3592.	1.2	3
101	Impaired Metabolism of Methylphenobarbital after a Combined Drug Overdose: Treatment by Resin Hemoperfusion. <i>Journal of Toxicology: Clinical Toxicology</i> , 1982, 19, 187-196.	1.5	2
102	Exposure to a Tobacco-Specific Carcinogen Among Adolescent Smokeless Tobacco Users in Rural California, United States. <i>Nicotine and Tobacco Research</i> , 2020, 22, 1764-1771.	1.4	2
103	Tobacco-specific and combustion pollutants in settled house dust in Malta. , 2022, 1, .		2
104	PM _{2.5} Concentrations in the Smoking Lounge of a Cannabis Store. <i>Environmental Science and Technology Letters</i> , 2022, 9, 551-556.	3.9	2
105	Minor Tobacco Alkaloids as Biomarkers to Distinguish Combusted Tobacco Use From Electronic Nicotine Delivery Systems Use. Two New Analytical Methods. <i>Frontiers in Chemistry</i> , 2022, 10, .	1.8	1
106	Secondhand smoke exposure in school children in Malta assessed through urinary biomarkers. <i>Environmental Research</i> , 2021, 204, 112405.	3.7	0