

Michèle Bouchard

List of Publications by Year in descending order

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79
papers

1,859
citations

236833

25
h-index

330025

37
g-index

80
all docs

80
docs citations

80
times ranked

2273
citing authors

#	ARTICLE	IF	CITATIONS
1	A Toxicokinetic Model for Predicting the Tissue Distribution and Elimination of Organic and Inorganic Mercury Following Exposure to Methyl Mercury in Animals and Humans. II. Application and Validation of the Model in Humans. <i>Toxicology and Applied Pharmacology</i> , 2001, 171, 50-60.	1.3	97
2	Toxicokinetics of titanium dioxide (TiO ₂) nanoparticles after inhalation in rats. <i>Toxicology Letters</i> , 2017, 265, 77-85.	0.4	75
3	A Toxicokinetic Model of Malathion and Its Metabolites as a Tool to Assess Human Exposure and Risk through Measurements of Urinary Biomarkers. <i>Toxicological Sciences</i> , 2003, 73, 182-194.	1.4	61
4	Biological monitoring of exposure to pyrethrins and pyrethroids in a metropolitan population of the Province of Quebec, Canada. <i>Environmental Research</i> , 2008, 107, 343-350.	3.7	61
5	Oral Systemic Bioavailability of Bisphenol A and Bisphenol S in Pigs. <i>Environmental Health Perspectives</i> , 2019, 127, 77005.	2.8	60
6	Toxicokinetics of permethrin biomarkers of exposure in orally exposed volunteers. <i>Toxicology Letters</i> , 2015, 232, 369-375.	0.4	58
7	Is 1-hydroxypyrene a reliable bioindicator of measured dietary polycyclic aromatic hydrocarbon under normal conditions?. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 778, 165-177.	1.2	53
8	Inflammatory and oxidative mechanisms potentiate bifenthrin-induced neurological alterations and anxiety-like behavior in adult rats. <i>Toxicology Letters</i> , 2018, 294, 73-86.	0.4	52
9	Dietary exposure to acrylamide in adolescents from a Canadian urban center. <i>Food and Chemical Toxicology</i> , 2013, 57, 75-83.	1.8	49
10	Urinary Excretion Kinetics of Pyrene and Benzo(a)pyrene Metabolites Following Intravenous Administration of the Parent Compounds or the Metabolites. <i>Toxicology and Applied Pharmacology</i> , 1996, 139, 301-309.	1.3	45
11	Biological monitoring of environmental exposure to polycyclic aromatic hydrocarbons in subjects living in the vicinity of a creosote impregnation plant. <i>International Archives of Occupational and Environmental Health</i> , 2001, 74, 505-513.	1.1	45
12	Pyrethroid insecticide lambda-cyhalothrin and its metabolites induce liver injury through the activation of oxidative stress and proinflammatory gene expression in rats following acute and subchronic exposure. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5841-5856.	2.7	44
13	Toxicokinetics of bisphenol-S and its glucuronide in plasma and urine following oral and dermal exposure in volunteers for the interpretation of biomonitoring data. <i>Environment International</i> , 2020, 138, 105644.	4.8	44
14	A toxicokinetic study to elucidate 3-hydroxybenzo(a)pyrene atypical urinary excretion profile following intravenous injection of benzo(a)pyrene in rats. <i>Journal of Applied Toxicology</i> , 2010, 30, 402-410.	1.4	43
15	Kinetics of Tissue Distribution and Elimination of Pyrene and 1-Hydroxypyrene Following Intravenous Administration of [¹⁴ C]Pyrene in Rats. <i>Toxicological Sciences</i> , 1998, 46, 11-20.	1.4	38
16	Time profiles and toxicokinetic parameters of key biomarkers of exposure to cypermethrin in orally exposed volunteers compared with previously available kinetic data following permethrin exposure. <i>Journal of Applied Toxicology</i> , 2015, 35, 1586-1593.	1.4	37
17	Concentrations versus amounts of biomarkers in urine: a comparison of approaches to assess pyrethroid exposure. <i>Environmental Health</i> , 2008, 7, 55.	1.7	36
18	Evaluation of DNA Adducts, DNA and RNA Oxidative Lesions, and 3-Hydroxybenzo(a)pyrene as Biomarkers of DNA Damage in Lung Following Intravenous Injection of the Parent Compound in Rats. <i>Chemical Research in Toxicology</i> , 2010, 23, 1207-1214.	1.7	31

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19	Inflammatory and cytotoxic effects of bifenthrin in primary microglia and organotypic hippocampal slice cultures. <i>Journal of Neuroinflammation</i> , 2018, 15, 159.	3.1	31
20	Detailed Urinary Excretion Time Courses of Biomarkers of Exposure to Permethrin and Estimated Exposure in Workers of a Corn Production Farm in Quebec, Canada. <i>Annals of Occupational Hygiene</i> , 2015, 59, 1152-1167.	1.9	30
21	Pyrethroid bifenthrin induces oxidative stress, neuroinflammation, and neuronal damage, associated with cognitive and memory impairment in murine hippocampus. <i>Neurochemistry International</i> , 2018, 120, 121-133.	1.9	30
22	Assessment of Exposure to Pyrethroids and Pyrethrins in a Rural Population of the Montérégie Area, Quebec, Canada. <i>Journal of Occupational and Environmental Hygiene</i> , 2009, 6, 341-352.	0.4	29
23	A Novel Toxicokinetic Modeling of Cypermethrin and Permethrin and Their Metabolites in Humans for Dose Reconstruction from Biomarker Data. <i>PLoS ONE</i> , 2014, 9, e88517.	1.1	28
24	Biological Monitoring of Exposure to Organophosphorus Insecticides in a Group of Horticultural Greenhouse Workers. <i>Annals of Occupational Hygiene</i> , 2006, 50, 505-515.	1.9	27
25	Systematic analysis of the relationship between standardized biological levels of polychlorinated biphenyls and thyroid function in pregnant women and newborns. <i>Chemosphere</i> , 2014, 98, 1-17.	4.2	26
26	Biomarkers of arsenic exposure and effects in a Canadian rural population exposed through groundwater consumption. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2014, 24, 127-134.	1.8	26
27	Relationship between prenatal exposure to polychlorinated biphenyls and birth weight: A systematic analysis of published epidemiological studies through a standardization of biomonitoring data. <i>Regulatory Toxicology and Pharmacology</i> , 2012, 64, 161-176.	1.3	25
28	Determination of Biological Reference Values for Chlorpyrifos Metabolites in Human Urine Using a Toxicokinetic Approach. <i>Journal of Occupational and Environmental Hygiene</i> , 2005, 2, 155-168.	0.4	24
29	Assessment of absorbed doses of carbaryl and associated health risks in a group of horticultural greenhouse workers. <i>International Archives of Occupational and Environmental Health</i> , 2007, 81, 355-370.	1.1	24
30	Systematic analysis of the relationship between standardized prenatal exposure to polychlorinated biphenyls and mental and motor development during follow-up of nine children cohorts. <i>Regulatory Toxicology and Pharmacology</i> , 2013, 66, 130-146.	1.3	23
31	Relation between dietary acrylamide exposure and biomarkers of internal dose in Canadian teenagers. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2014, 24, 215-221.	1.8	23
32	High serum organochlorine pesticide concentrations in diabetics of a cotton producing area of the Benin Republic (West Africa). <i>Environment International</i> , 2014, 69, 1-8.	4.8	23
33	Volatile organic compounds (VOCs) in indoor air and tap water samples in residences of pregnant women living in an area of unconventional natural gas operations: Findings from the EXPERIVA study. <i>Science of the Total Environment</i> , 2022, 805, 150242.	3.9	21
34	In vitro neurotoxicity data in human risk assessment of polybrominated diphenyl ethers (PBDEs): Overview and perspectives. <i>Toxicology in Vitro</i> , 2011, 25, 1509-1515.	1.1	20
35	Commuting behaviors and exposure to air pollution in Montreal, Canada. <i>Science of the Total Environment</i> , 2015, 508, 193-198.	3.9	20
36	URINARY EXCRETION KINETICS OF 1-HYDROXYPYRENE IN RATS SUBCHRONICALLY EXPOSED TO PYRENE OR POLYCYCLIC AROMATIC HYDROCARBON MIXTURES. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2002, 65, 1195-1209.	1.1	19

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37	Liquid chromatography-tandem mass spectrometry (LC/APCI-MS/MS) methods for the quantification of captan and folpet phthalimide metabolites in human plasma and urine. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2243-2255.	1.9	19
38	Toxicokinetics of captan and folpet biomarkers in dermally exposed volunteers. <i>Journal of Applied Toxicology</i> , 2012, 32, 202-209.	1.4	19
39	Documenting the kinetic time course of lambda-cyhalothrin metabolites in orally exposed volunteers for the interpretation of biomonitoring data. <i>Toxicology Letters</i> , 2017, 276, 115-121.	0.4	19
40	Toxicokinetics of captan and folpet biomarkers in orally exposed volunteers. <i>Journal of Applied Toxicology</i> , 2012, 32, 194-201.	1.4	18
41	Toxicokinetic Modeling of Parathion and its Metabolites in Humans for the Determination of Biological Reference Values. <i>Toxicology Mechanisms and Methods</i> , 2004, 15, 33-52.	1.3	16
42	Aggregate exposure of the adult French population to pyrethroids. <i>Toxicology and Applied Pharmacology</i> , 2018, 351, 21-31.	1.3	16
43	Toxicokinetics of bisphenol S in rats for predicting human bisphenol S clearance from allometric scaling. <i>Toxicology and Applied Pharmacology</i> , 2020, 386, 114845.	1.3	16
44	A Detailed Urinary Excretion Time Course Study of Captan and Folpet Biomarkers in Workers for the Estimation of Dose, Main Route-of-Entry and Most Appropriate Sampling and Analysis Strategies. <i>Annals of Occupational Hygiene</i> , 2012, 56, 815-828.	1.9	15
45	Implementation of human biomonitoring in the Dehcho region of the Northwest Territories, Canada (2016-2017). <i>Archives of Public Health</i> , 2018, 76, 73.	1.0	15
46	Kinetic time courses of lambda-cyhalothrin metabolites after dermal application of Matador EC 120 in volunteers. <i>Toxicology Letters</i> , 2018, 296, 132-138.	0.4	15
47	Repeated Measures of Validated and Novel Biomarkers of Exposure to Polycyclic Aromatic Hydrocarbons in Individuals Living Near an Aluminum Plant in Quebec, Canada. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2009, 72, 1534-1549.	1.1	14
48	Bifenthrin insecticide promotes oxidative stress and increases inflammatory mediators in human neuroblastoma cells through NF-kappaB pathway. <i>Toxicology in Vitro</i> , 2020, 65, 104792.	1.1	14
49	Development of a High-Performance Liquid Chromatographic Method for the Simultaneous Determination of Pyrene-1,6- and 1,8-Dione in Animal and Human Urine. <i>Journal of Analytical Toxicology</i> , 2005, 29, 533-538.	1.7	13
50	Comparison of a toxicokinetic and a questionnaire-based approach to assess methylmercury intake in exposed individuals. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2011, 21, 328-335.	1.8	13
51	Modeling of the Internal Kinetics of Benzo(a)pyrene and 3-Hydroxybenzo(a)pyrene Biomarker from Rat Data. <i>Toxicological Sciences</i> , 2011, 122, 275-287.	1.4	13
52	Assessing traffic and polycyclic aromatic hydrocarbon exposure in Montreal, Canada. <i>Science of the Total Environment</i> , 2014, 470-471, 945-953.	3.9	13
53	Use of Physiologically-Based Pharmacokinetic Modeling to Simulate the Profiles of 3-Hydroxybenzo(a)pyrene in Workers Exposed to Polycyclic Aromatic Hydrocarbons. <i>PLoS ONE</i> , 2014, 9, e102570.	1.1	13
54	Benzo(a)pyrenediolepoxide-hemoglobin adducts and 3-hydroxy-benzo(a)pyrene urinary excretion profiles in rats subchronically exposed to benzo(a)pyrene. <i>Archives of Toxicology</i> , 1995, 69, 540-546.	1.9	12

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55	Determination of no-observed effect level (NOEL)-biomarker equivalents to interpret biomonitoring data for organophosphorus pesticides in children. <i>Environmental Health</i> , 2009, 8, 5.	1.7	12
56	Time courses and variability of pyrethroid biomarkers of exposure in a group of agricultural workers in Quebec, Canada. <i>International Archives of Occupational and Environmental Health</i> , 2016, 89, 767-783.	1.1	12
57	Toxicokinetic modeling of captan fungicide and its tetrahydrophthalimide biomarker of exposure in humans. <i>Toxicology Letters</i> , 2012, 213, 27-34.	0.4	11
58	Comparison of the kinetics of various biomarkers of benzo[<i>a</i>]pyrene exposure following different routes of entry in rats. <i>Journal of Applied Toxicology</i> , 2015, 35, 781-790.	1.4	11
59	Human biomonitoring of metals in sub-Arctic Dene communities of the Northwest Territories, Canada. <i>Environmental Research</i> , 2020, 190, 110008.	3.7	11
60	Toxicokinetics in rats and modeling to support the interpretation of biomonitoring data for rare-earth elements. <i>Environment International</i> , 2021, 155, 106685.	4.8	11
61	Hair to blood mercury concentration ratios and a retrospective hair segmental mercury analysis in the Northwest Territories, Canada. <i>Environmental Research</i> , 2022, 203, 111800.	3.7	11
62	Understanding the linked kinetics of benzo(a)pyrene and 3-hydroxybenzo(a)pyrene biomarker of exposure using physiologically-based pharmacokinetic modelling in rats. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2013, 40, 669-682.	0.8	10
63	Effects of Intravenous Benzo[<i>a</i>]Pyrene Dose Administration on Levels of Exposure Biomarkers, DNA Adducts, and Gene Expression in Rats. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2015, 78, 166-184.	1.1	10
64	Lambda-cyhalothrin exposure alters purine nucleotide hydrolysis and nucleotidase gene expression pattern in platelets and liver of rats. <i>Chemico-Biological Interactions</i> , 2019, 311, 108796.	1.7	10
65	Silica Nanoparticles Induce Hepatotoxicity by Triggering Oxidative Damage, Apoptosis, and Bax-Bcl2 Signaling Pathway. <i>Biological Trace Element Research</i> , 2022, 200, 1688-1698.	1.9	10
66	Kinetic time courses of inhaled silver nanoparticles in rats. <i>Archives of Toxicology</i> , 2022, 96, 487-498.	1.9	10
67	Repeated bifenthrin exposure alters hippocampal Nurr-1/AChE and induces depression-like behavior in adult rats. <i>Behavioural Brain Research</i> , 2019, 370, 111898.	1.2	9
68	Dose reconstruction in workers exposed to two major pyrethroid pesticides and determination of biological reference values using a toxicokinetic model. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2018, 28, 599-614.	1.8	8
69	Deriving A Drinking Water Guideline for A Non-Carcinogenic Contaminant: The Case of Manganese. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1293.	1.2	8
70	Disposition kinetics of selenium in healthy volunteers following therapeutic shampoo treatment. <i>Environmental Toxicology and Pharmacology</i> , 2010, 29, 252-259.	2.0	7
71	Gas-chromatography mass-spectrometry determination of phthalic acid in human urine as a biomarker of folpet exposure. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 493-502.	1.9	7
72	Effect of the dose on the toxicokinetics of a quaternary mixture of rare earth elements administered to rats. <i>Toxicology Letters</i> , 2021, 345, 46-53.	0.4	7

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73	Impact of pesticide coexposure: an experimental study with binary mixtures of lambda-cyhalothrin (LCT) and captan and its impact on the toxicokinetics of LCT biomarkers of exposure. Archives of Toxicology, 2020, 94, 3045-3058.	1.9	6
74	Subacute silica nanoparticle exposure induced oxidative stress and inflammation in rat hippocampus combined with disruption of cholinergic system and behavioral functions. NanoImpact, 2021, 24, 100358.	2.4	6
75	Toxicokinetic modeling of folpet fungicide and its ring biomarkers of exposure in humans. Journal of Applied Toxicology, 2013, 33, 607-617.	1.4	5
76	Study of selenium intake and disposition in various matrices based on mathematical algorithms derived from pooled biomonitoring data. International Journal of Hygiene and Environmental Health, 2014, 217, 796-804.	2.1	5
77	Kinetics of Diol and Hydroxybenzo[a]pyrene Metabolites in Relation to DNA Adduct Formation and Gene Expression in Rats. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2015, 78, 725-746.	1.1	5
78	Characterization of Aerosols of Titanium Dioxide Nanoparticles Following Three Generation Methods Using an Optimized Aerosolization System Designed for Experimental Inhalation Studies. Toxics, 2017, 5, 14.	1.6	4
79	Excretion time courses of lambda-cyhalothrin metabolites in the urine of strawberry farmworkers and effect of coexposure with captan. Archives of Toxicology, 2022, 96, 2465-2486.	1.9	1