

# CÃ©line Brochot

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,206  
citations

257450

24  
h-index

233421

45  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3361  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Human Early-Life Exposome (HELIX): Project Rationale and Design. <i>Environmental Health Perspectives</i> , 2014, 122, 535-544.	6.0	280
2	Human Early Life Exposome (HELIX) study: a European population-based exposome cohort. <i>BMJ Open</i> , 2018, 8, e021311.	1.9	161
3	Variability of urinary concentrations of non-persistent chemicals in pregnant women and school-aged children. <i>Environment International</i> , 2018, 121, 561-573.	10.0	106
4	Toxicokinetic models and related tools in environmental risk assessment of chemicals. <i>Science of the Total Environment</i> , 2017, 578, 1-15.	8.0	99
5	Metabolomics-on-a-Chip and Predictive Systems Toxicology in Microfluidic Bioartificial Organs. <i>Analytical Chemistry</i> , 2012, 84, 1840-1848.	6.5	95
6	Improvement of HepG2/C3a cell functions in a microfluidic biochip. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1704-1715.	3.3	90
7	Investigation of ifosfamide nephrotoxicity induced in a liver&quot;kidney co&quot;culture biochip. <i>Biotechnology and Bioengineering</i> , 2013, 110, 597-608.	3.3	90
8	Metabolomics-on-a-Chip of Hepatotoxicity Induced by Anticancer Drug Flutamide and Its Active Metabolite Hydroxyflutamide Using HepG2/C3a Microfluidic Biochips. <i>Toxicological Sciences</i> , 2013, 132, 8-20.	3.1	79
9	Development of a physiologically based kinetic model for <sup>99m</sup> Tc-labelled carbon nanoparticles inhaled by humans. <i>Inhalation Toxicology</i> , 2009, 21, 1099-1107.	1.6	75
10	Exposure assessment of phthalates in French pregnant women: Results of the ELFE pilot study. <i>International Journal of Hygiene and Environmental Health</i> , 2013, 216, 271-279.	4.3	67
11	A Physiologically Based Toxicokinetic Model for the Zebrafish <i>Danio rerio</i> . <i>Environmental Science &amp; Technology</i> , 2014, 48, 781-790.	10.0	61
12	Generic physiologically-based toxicokinetic modelling for fish: Integration of environmental factors and species variability. <i>Science of the Total Environment</i> , 2019, 651, 516-531.	8.0	60
13	Physiologically-based Kinetic Modelling (PBK Modelling): Meeting the 3Rs Agenda. <i>ATLA Alternatives To Laboratory Animals</i> , 2007, 35, 661-671.	1.0	59
14	Predictive toxicology using systemic biology and liver microfluidic &quot;on chip&quot;-approaches: Application to acetaminophen injury. <i>Toxicology and Applied Pharmacology</i> , 2012, 259, 270-280.	2.8	59
15	A cocktail of metabolic probes demonstrates the relevance of primary human hepatocyte cultures in a microfluidic biochip for pharmaceutical drug screening. <i>International Journal of Pharmaceutics</i> , 2011, 408, 67-75.	5.2	58
16	A stochastic whole-body physiologically based pharmacokinetic model to assess the impact of inter-individual variability on tissue dosimetry over the human lifespan. <i>Regulatory Toxicology and Pharmacology</i> , 2010, 57, 103-116.	2.7	56
17	Modelling the exposure to chemicals for risk assessment: a comprehensive library of multimedia and PBPK models for integration, prediction, uncertainty and sensitivity analysis &quot; the MERLIN-Expo tool. <i>Science of the Total Environment</i> , 2016, 568, 770-784.	8.0	43
18	Evaluation of seven drug metabolisms and clearances by cryopreserved human primary hepatocytes cultivated in microfluidic biochips. <i>Xenobiotica</i> , 2013, 43, 140-152.	1.1	42

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19	Integrative Strategy of Testing Systems for Identification of Endocrine Disruptors Inducing Metabolic Disorders An Introduction to the OBERON Project. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2988.	4.1	38
20	Metabolomics-on-a-chip and metabolic flux analysis for label-free modeling of the internal metabolism of HepG2/C3A cells. <i>Molecular BioSystems</i> , 2012, 8, 1908.	2.9	37
21	Lumping in Pharmacokinetics. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2005, 32, 719-736.	1.8	32
22	Prediction of dose-hepatotoxic response in humans based on toxicokinetic/toxicodynamic modeling with or without in vivo data: A case study with acetaminophen. <i>Toxicology Letters</i> , 2013, 220, 26-34.	0.8	31
23	Development of a physiologically based toxicokinetic model for butadiene and four major metabolites in humans: Global sensitivity analysis for experimental design issues. <i>Chemico-Biological Interactions</i> , 2007, 167, 168-183.	4.0	28
24	PBPK modeling of the cis- and trans-permethrin isomers and their major urinary metabolites in rats. <i>Toxicology and Applied Pharmacology</i> , 2016, 294, 65-77.	2.8	27
25	The MCRA toolbox of models and data to support chemical mixture risk assessment. <i>Food and Chemical Toxicology</i> , 2020, 138, 111185.	3.6	26
26	Interpreting PCB levels in breast milk using a physiologically based pharmacokinetic model to reconstruct the dynamic exposure of Italian women. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2012, 22, 601-609.	3.9	25
27	Kinetic modelling of in vitro cell-based assays to characterize non-specific bindings and ADME processes in a static and a perfused fluidic system. <i>Toxicology Letters</i> , 2011, 205, 310-319.	0.8	24
28	Determination of cis-permethrin, trans-permethrin and associated metabolites in rat blood and organs by gas chromatography ion trap mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3477-3487.	3.7	23
29	Prediction of maternal and foetal exposures to perfluoroalkyl compounds in a Spanish birth cohort using toxicokinetic modelling. <i>Toxicology and Applied Pharmacology</i> , 2019, 379, 114640.	2.8	23
30	Modelling ecological and human exposure to POPs in Venice lagoon Part II: Quantitative uncertainty and sensitivity analysis in coupled exposure models. <i>Science of the Total Environment</i> , 2016, 569-570, 1635-1649.	8.0	20
31	Aggregate and cumulative chronic risk assessment for pyrethroids in the French adult population. <i>Food and Chemical Toxicology</i> , 2020, 143, 111519.	3.6	20
32	Modelling ecological and human exposure to POPs in Venice lagoon. Part I Application of MERLIN-Expo tool for integrated exposure assessment. <i>Science of the Total Environment</i> , 2016, 565, 961-976.	8.0	19
33	Investigating the interaction between melamine and cyanuric acid using a Physiologically-Based Toxicokinetic model in rainbow trout. <i>Toxicology and Applied Pharmacology</i> , 2019, 370, 184-195.	2.8	19
34	Placental transfer of xenobiotics in pregnancy physiologically-based pharmacokinetic models: Structure and data. <i>Computational Toxicology</i> , 2019, 12, 100111.	3.3	18
35	In vitro human metabolism of permethrin isomers alone or as a mixture and the formation of the major metabolites in cryopreserved primary hepatocytes. <i>Toxicology in Vitro</i> , 2015, 29, 803-812.	2.4	16
36	Multimedia & PBPK modelling with MERLIN-Expo versus biomonitoring for assessing Pb exposure of pre-school children in a residential setting. <i>Science of the Total Environment</i> , 2016, 568, 785-793.	8.0	15

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37	Physiology-based toxicokinetic modelling in the frame of the European Human Biomonitoring Initiative. <i>Environmental Research</i> , 2019, 172, 216-230.	7.5	15
38	Evaluation of antiangiogenic treatment effects on tumors' microcirculation by Bayesian physiological pharmacokinetic modeling and magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2006, 24, 1059-1067.	1.8	14
39	Predicting in vivo gene expression in macrophages after exposure to benzo(a)pyrene based on in vitro assays and toxicokinetic/toxicodynamic models. <i>Toxicology Letters</i> , 2011, 201, 8-14.	0.8	13
40	Estimating the cumulative human exposures to pyrethroids by combined multi-route PBPK models: Application to the French population. <i>Toxicology Letters</i> , 2019, 312, 125-138.	0.8	13
41	Determination of maternal and foetal distribution of cis- and trans-permethrin isomers and their metabolites in pregnant rats by liquid chromatography tandem mass spectrometry (LC-MS/MS). <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 8043-8052.	3.7	12
42	A generic PBTK model implemented in the MCRA platform: Predictive performance and uses in risk assessment of chemicals. <i>Food and Chemical Toxicology</i> , 2020, 142, 111440.	3.6	12
43	Potential for MERLIN-Expo, an advanced tool for higher tier exposure assessment, within the EU chemical legislative frameworks. <i>Science of the Total Environment</i> , 2016, 562, 474-479.	8.0	11
44	Assessing the impacts on fetal dosimetry of the modelling of the placental transfers of xenobiotics in a pregnancy physiologically based pharmacokinetic model. <i>Toxicology and Applied Pharmacology</i> , 2020, 409, 115318.	2.8	11
45	Estimating human exposure to pyrethroids™ mixtures from biomonitoring data using physiologically based pharmacokinetic modeling. <i>Environmental Research</i> , 2021, 192, 110281.	7.5	9
46	BK/TD models for analyzing in vitro impedance data on cytotoxicity. <i>Toxicology Letters</i> , 2015, 235, 96-106.	0.8	8
47	Assessing multimedia/multipathway exposures to inorganic arsenic at population and individual level using MERLIN-Expo. <i>Science of the Total Environment</i> , 2016, 568, 794-802.	8.0	8
48	Evaluation of Placental Transfer and Tissue Distribution of cis- and Trans-Permethrin in Pregnant Rats and Fetuses Using a Physiological-Based Pharmacokinetic Model. <i>Frontiers in Pediatrics</i> , 2021, 9, 730383.	1.9	8
49	Linking fate model in freshwater and PBPK model to assess human internal dosimetry of B(a)P associated with drinking water. <i>Environmental Geochemistry and Health</i> , 2011, 33, 371-387.	3.4	7
50	Mapping blood lead levels in French children due to environmental contamination using a modeling approach. <i>Science of the Total Environment</i> , 2022, 808, 152149.	8.0	7
51	Use of a Chemical Probe to Increase Safety for Human Volunteers in Toxicokinetic Studies. <i>Risk Analysis</i> , 2005, 25, 1559-1571.	2.7	6
52	Spatio-temporal assessment of pregnant women exposure to chlorpyrifos at a regional scale. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2021, , .	3.9	6
53	Modelling the Fate of Chemicals in Humans Using a Lifetime Physiologically Based Pharmacokinetic (PBPK) Model in MERLIN-Expo. <i>Handbook of Environmental Chemistry</i> , 2018, , 215-257.	0.4	6
54	Analysis of real-time mixture cytotoxicity data following repeated exposure using BK/TD models. <i>Toxicology and Applied Pharmacology</i> , 2016, 305, 118-126.	2.8	4

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55	Modeling Pharmacokinetics. <i>Methods in Molecular Biology</i> , 2016, 1425, 37-62.	0.9	4
56	Characterizing environmental geographic inequalities using an integrated exposure assessment. <i>Environmental Health</i> , 2021, 20, 58.	4.0	3
57	Quantifying heterogeneity in exposureâ€“risk relationships using exhaled breath biomarkers for 1,3-butadiene exposures. <i>Journal of Breath Research</i> , 2008, 2, 037018.	3.0	2
58	PBPK Modeling to Simulate the Fate of Compounds in Living Organisms. <i>Methods in Molecular Biology</i> , 2022, 2425, 29-56.	0.9	2
59	Extension of the Isobolographic Approach to Interactions Studies Between More than Two Drugs: Illustration with the Convulsant Interaction between Pefloxacin, Norfloxacin, and Theophylline in Rats. <i>Journal of Pharmaceutical Sciences</i> , 2004, 93, 553-562.	3.3	1
60	Characterization of spatialized environmental exposure to a pyrethroid in Picardy, France. <i>Environnement, Risques Et Sante (discontinued)</i> , 2019, 18, 392-400.	0.1	1
61	Environmental health risk assessment of ambient lead levels in Lisbon, Portugal: A full chain study approach. <i>Toxicology Letters</i> , 2011, 205, S95.	0.8	0
62	In vitro metabolism of permethrin and two metabolites by human primary hepatocytes. <i>Toxicology Letters</i> , 2014, 229, S122.	0.8	0
63	Developing TK databases and tools to support food safety assessment. <i>Toxicology Letters</i> , 2018, 295, S5-S6.	0.8	0
64	LINKING MULTIMEDIA ENVIRONMENTAL AND PBPK MODELS TO ASSESS HEALTH RISKS â€“ A CASE STUDY. <i>ISEE Conference Abstracts</i> , 2011, 2011, .	0.0	0