CÃ©line Brochot

List of Publications by Year
in descending order

64 papers	2,206 citations	257101 24 h-index	233125 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. Environmental Health Perspectives, 2014, 122, 535-544.	2.8	280
2	Human Early Life Exposome (HELIX) study: a European population-based exposome cohort. BMJ Open, 2018, 8, e021311.	0.8	161
3	Variability of urinary concentrations of non-persistent chemicals in pregnant women and school-aged children. Environment International, 2018, 121, 561-573.	4.8	106
4	Toxicokinetic models and related tools in environmental risk assessment of chemicals. Science of the Total Environment, 2017, 578, 1-15.	3.9	99
5	Metabolomics-on-a-Chip and Predictive Systems Toxicology in Microfluidic Bioartificial Organs. Analytical Chemistry, 2012, 84, 1840-1848.	3.2	95
6	Improvement of HepG2/C3a cell functions in a microfluidic biochip. Biotechnology and Bioengineering, 2011, 108, 1704-1715.	1.7	90
7	Investigation of ifosfamide nephrotoxicity induced in a liverâ€“kidney coâ€culture biochip. Biotechnology and Bioengineering, 2013, 110, 597-608.	1.7	90
8	Metabolomics-on-a-Chip of Hepatotoxicity Induced by Anticancer Drug Flutamide and Its Active Metabolite Hydroxyflutamide Using HepG2/C3a Microfluidic Biochips. Toxicological Sciences, 2013, 132, 8-20.	1.4	79
9	Development of a physiologically based kinetic model for 99m-Technetium-labelled carbon nanoparticles inhaled by humans. Inhalation Toxicology, 2009, 21, 1099-1107.	0.8	75
10	Exposure assessment of phthalates in French pregnant women: Results of the ELFE pilot study. International Journal of Hygiene and Environmental Health, 2013, 216, 271-279.	2.1	67
11	A Physiologically Based Toxicokinetic Model for the Zebrafish Danio rerio. Environmental Science & Technology, 2014, 48, 781-790.	4.6	61
12	Generic physiologically-based toxicokinetic modelling for fish: Integration of environmental factors and species variability. Science of the Total Environment, 2019, 651, 516-531.	3.9	60
13	Physiologically-based Kinetic Modelling (PBK Modelling): Meeting the 3Rs Agenda. ATLA Alternatives To Laboratory Animals, 2007, 35, 661-671.	0.7	59
14	Predictive toxicology using systemic biology and liver microfluidic â€œon chipâ€•approaches: Application to acetaminophen injury. Toxicology and Applied Pharmacology, 2012, 259, 270-280.	1.3	59
15	A cocktail of metabolic probes demonstrates the relevance of primary human hepatocyte cultures in a microfluidic biochip for pharmaceutical drug screening. International Journal of Pharmaceutics, 2011, 408, 67-75.	2.6	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. Regulatory Toxicology and Pharmacology, 2010, 57, 103-116.	1.3	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 â€“ the MERLIN-Expo tool. Science of the Total Environment, 2016, 568, 770-784.	3.9	43
18	Evaluation of seven drug metabolisms and clearances by cryopreserved human primary hepatocytes cultivated in microfluidic biochips. Xenobiotica, 2013, 43, 140-152.	0.5	42

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19	Integrative Strategy of Testing Systems for Identification of Endocrine Disruptors Inducing Metabolic Disordersâ€"An Introduction to the OBERON Project. International Journal of Molecular Sciences, 2020, 21, 2988.	1.8	38
20	Metabolomics-on-a-chip and metabolic flux analysis for label-free modeling of the internal metabolism of HepG2/C3A cells. Molecular BioSystems, 2012, 8, 1908.	2.9	37
21	Lumping in Pharmacokinetics. Journal of Pharmacokinetics and Pharmacodynamics, 2005, 32, 719-736.	0.8	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. Toxicology Letters, 2013, 220, 26-34.	0.4	31
23	Development of a physiologically based toxicokinetic model for butadiene and four major metabolites in humans: Global sensitivity analysis for experimental design issues. Chemico-Biological Interactions, 2007, 167, 168-183.	1.7	28
24	PBPK modeling of the cis- and trans-permethrin isomers and their major urinary metabolites in rats. Toxicology and Applied Pharmacology, 2016, 294, 65-77.	1.3	27
25	The MCRA toolbox of models and data to support chemical mixture risk assessment. Food and Chemical Toxicology, 2020, 138, 111185.	1.8	26
26	Interpreting PCB levels in breast milk using a physiologically based pharmacokinetic model to reconstruct the dynamic exposure of Italian women. Journal of Exposure Science and Environmental Epidemiology, 2012, 22, 601-609.	1.8	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. Toxicology Letters, 2011, 205, 310-319.	0.4	24
28	Determination of cis-permethrin, trans-permethrin and associated metabolites in rat blood and organs by gas chromatographyâ€"ion trap mass spectrometry. Analytical and Bioanalytical Chemistry, 2014, 406, 3477-3487.	1.9	23
29	Prediction of maternal and foetal exposures to perfluoroalkyl compounds in a Spanish birth cohort using toxicokinetic modelling. Toxicology and Applied Pharmacology, 2019, 379, 114640.	1.3	23
30	Modelling ecological and human exposure to POPs in Venice lagoon â€" Part II: Quantitative uncertainty and sensitivity analysis in coupled exposure models. Science of the Total Environment, 2016, 569-570, 1635-1649.	3.9	20
31	Aggregate and cumulative chronic risk assessment for pyrethroids in the French adult population. Food and Chemical Toxicology, 2020, 143, 111519.	1.8	20
32	Modelling ecological and human exposure to POPs in Venice lagoon. Part I â€" Application of MERLIN-Expo tool for integrated exposure assessment. Science of the Total Environment, 2016, 565, 961-976.	3.9	19
33	Investigating the interaction between melamine and cyanuric acid using a Physiologically-Based Toxicokinetic model in rainbow trout. Toxicology and Applied Pharmacology, 2019, 370, 184-195.	1.3	19
34	Placental transfer of xenobiotics in pregnancy physiologically-based pharmacokinetic models: Structure and data. Computational Toxicology, 2019, 12, 100111.	1.8	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. Toxicology in Vitro, 2015, 29, 803-812.	1.1	16
36	Multimedia & PBPK modelling with MERLIN-Expo versus biomonitoring for assessing Pb exposure of pre-school children in a residential setting. Science of the Total Environment, 2016, 568, 785-793.	3.9	15

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37	Physiology-based toxicokinetic modelling in the frame of the European Human Biomonitoring Initiative. Environmental Research, 2019, 172, 216-230.	3.7	15
38	Evaluation of antiangiogenic treatment effects on tumors' microcirculation by Bayesian physiological pharmacokinetic modeling and magnetic resonance imaging. Magnetic Resonance Imaging, 2006, 24, 1059-1067.	1.0	14
39	Predicting in vivo gene expression in macrophages after exposure to benzo(a)pyrene based on in vitro assays and toxicokinetic/toxicodynamic models. Toxicology Letters, 2011, 201, 8-14.	0.4	13
40	Estimating the cumulative human exposures to pyrethroids by combined multi-route PBPK models: Application to the French population. Toxicology Letters, 2019, 312, 125-138.	0.4	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). Analytical and Bioanalytical Chemistry, 2019, 411, 8043-8052.	1.9	12
42	A generic PBTK model implemented in the MCRA platform: Predictive performance and uses in risk assessment of chemicals. Food and Chemical Toxicology, 2020, 142, 111440.	1.8	12
43	Potential for MERLIN-Expo, an advanced tool for higher tier exposure assessment, within the EU chemical legislative frameworks. Science of the Total Environment, 2016, 562, 474-479.	3.9	11
44	Assessing the impacts on fetal dosimetry of the modelling of the placental transfers of xenobiotics in a pregnancy physiologically based pharmacokinetic model. Toxicology and Applied Pharmacology, 2020, 409, 115318.	1.3	11
45	Estimating human exposure to pyrethroidsâ€™ mixtures from biomonitoring data using physiologically based pharmacokinetic modeling. Environmental Research, 2021, 192, 110281.	3.7	9
46	BK/TD models for analyzing in vitro impedance data on cytotoxicity. Toxicology Letters, 2015, 235, 96-106.	0.4	8
47	Assessing multimedia/multipathway exposures to inorganic arsenic at population and individual level using MERLIN-Expo. Science of the Total Environment, 2016, 568, 794-802.	3.9	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. Frontiers in Pediatrics, 2021, 9, 730383.	0.9	8
49	Linking fate model in freshwater and PBPK model to assess human internal dosimetry of B(a)P associated with drinking water. Environmental Geochemistry and Health, 2011, 33, 371-387.	1.8	7
50	Mapping blood lead levels in French children due to environmental contamination using a modeling approach. Science of the Total Environment, 2022, 808, 152149.	3.9	7
51	Use of a Chemical Probe to Increase Safety for Human Volunteers in Toxicokinetic Studies. Risk Analysis, 2005, 25, 1559-1571.	1.5	6
52	Spatio-temporal assessment of pregnant women exposure to chlorpyrifos at a regional scale. Journal of Exposure Science and Environmental Epidemiology, 2021, , .	1.8	6
53	Modelling the Fate of Chemicals in Humans Using a Lifetime Physiologically Based Pharmacokinetic (PBPK) Model in MERLIN-Expo. Handbook of Environmental Chemistry, 2018, , 215-257.	0.2	6
54	Analysis of real-time mixture cytotoxicity data following repeated exposure using BK/TD models. Toxicology and Applied Pharmacology, 2016, 305, 118-126.	1.3	4

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55	Modeling Pharmacokinetics. Methods in Molecular Biology, 2016, 1425, 37-62.	0.4	4
56	Characterizing environmental geographic inequalities using an integrated exposure assessment. Environmental Health, 2021, 20, 58.	1.7	3
57	Quantifying heterogeneity in exposureâ€“risk relationships using exhaled breath biomarkers for 1,3-butadiene exposures. Journal of Breath Research, 2008, 2, 037018.	1.5	2
58	PBPK Modeling to Simulate the Fate of Compounds in Living Organisms. Methods in Molecular Biology, 2022, 2425, 29-56.	0.4	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. Journal of Pharmaceutical Sciences, 2004, 93, 553-562.	1.6	1
60	Characterization of spatialized environmental exposure to a pyrethroid in Picardy, France. Environnement, Risques Et Sante (discontinued), 2019, 18, 392-400.	0.1	1
61	Environmental health risk assessment of ambient lead levels in Lisbon, Portugal: A full chain study approach. Toxicology Letters, 2011, 205, S95.	0.4	0
62	In vitro metabolism of permethrin and two metabolites by human primary hepatocytes. Toxicology Letters, 2014, 229, S122.	0.4	0
63	Developing TK databases and tools to support food safety assessment. Toxicology Letters, 2018, 295, S5-S6.	0.4	0
64	LINKING MULTIMEDIA ENVIRONMENTAL AND PBPK MODELS TO ASSESS HEALTH RISKS â€“ A CASE STUDY. ISEE Conference Abstracts, 2011, 2011, .	0.0	0