

Cline Brochot

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

1,675
citations

22
h-index

40
g-index

66
ext. papers

1,947
ext. citations

5.3
avg. IF

4.37
L-index

#	Paper	IF	Citations
60	PBPK Modeling to Simulate the Fate of Compounds in Living Organisms.. <i>Methods in Molecular Biology</i> , 2022 , 2425, 29-56	1.4	
59	Mapping blood lead levels in French children due to environmental contamination using a modeling approach. <i>Science of the Total Environment</i> , 2021 , 152149	10.2	0
58	Spatio-temporal assessment of pregnant women exposure to chlorpyrifos at a regional scale. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2021 ,	6.7	4
57	Characterizing environmental geographic inequalities using an integrated exposure assessment. <i>Environmental Health</i> , 2021 , 20, 58	6	1
56	Estimating human exposure to pyrethroids mixtures from biomonitoring data using physiologically based pharmacokinetic modeling. <i>Environmental Research</i> , 2021 , 192, 110281	7.9	1
55	Evaluation of Placental Transfer and Tissue Distribution of - and -Permethrin in Pregnant Rats and Fetuses Using a Physiological-Based Pharmacokinetic Model. <i>Frontiers in Pediatrics</i> , 2021 , 9, 730383	3.4	1
54	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	4.6	7
53	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	4.7	3
52	Aggregate and cumulative chronic risk assessment for pyrethroids in the French adult population. <i>Food and Chemical Toxicology</i> , 2020 , 143, 111519	4.7	10
51	The MCRA toolbox of models and data to support chemical mixture risk assessment. <i>Food and Chemical Toxicology</i> , 2020 , 138, 111185	4.7	19
50	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,	6.3	13
49	Physiology-based toxicokinetic modelling in the frame of the European Human Biomonitoring Initiative. <i>Environmental Research</i> , 2019 , 172, 216-230	7.9	6
48	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	4.6	10
47	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	4.4	8
46	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	4.6	11
45	Placental transfer of xenobiotics in pregnancy physiologically-based pharmacokinetic models: Structure and data. <i>Computational Toxicology</i> , 2019 , 12, 100111	3.1	14
44	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	4.4	6

43	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	10.2	36
42	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	0.8	4
41	Developing TK databases and tools to support food safety assessment. <i>Toxicology Letters</i> , 2018 , 295, S5-S6	4.4	
40	Variability of urinary concentrations of non-persistent chemicals in pregnant women and school-aged children. <i>Environment International</i> , 2018 , 121, 561-573	12.9	61
39	Human Early Life Exposome (HELIX) study: a European population-based exposome cohort. <i>BMJ Open</i> , 2018 , 8, e021311	3	88
38	Toxicokinetic models and related tools in environmental risk assessment of chemicals. <i>Science of the Total Environment</i> , 2017 , 578, 1-15	10.2	72
37	Modeling Pharmacokinetics. <i>Methods in Molecular Biology</i> , 2016 , 1425, 37-62	1.4	4
36	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	10.2	10
35	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	10.2	8
34	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	4.6	22
33	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	10.2	14
32	Modelling the exposure to chemicals for risk assessment: a comprehensive library of multimedia and PBPK models for integration, prediction, uncertainty and sensitivity analysis - the MERLIN-Expo tool. <i>Science of the Total Environment</i> , 2016 , 568, 770-784	10.2	35
31	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	10.2	12
30	Analysis of real-time mixture cytotoxicity data following repeated exposure using BK/TD models. <i>Toxicology and Applied Pharmacology</i> , 2016 , 305, 118-126	4.6	3
29	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	10.2	17
28	BK/TD models for analyzing in vitro impedance data on cytotoxicity. <i>Toxicology Letters</i> , 2015 , 235, 96-106	4.4	7
27	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, 803-12	3.6	13
26	A physiologically based toxicokinetic model for the zebrafish <i>Danio rerio</i> . <i>Environmental Science & Technology</i> , 2014 , 48, 781-90	10.3	50

25	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, 3477-87	4.4	19
24	The human early-life exposome (HELIX): project rationale and design. <i>Environmental Health Perspectives</i> , 2014 , 122, 535-44	8.4	219
23	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	4.4	29
22	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, 271-9	6.9	58
21	Evaluation of seven drug metabolisms and clearances by cryopreserved human primary hepatocytes cultivated in microfluidic biochips. <i>Xenobiotica</i> , 2013 , 43, 140-52	2	37
20	Investigation of ifosfamide nephrotoxicity induced in a liver-kidney co-culture biochip. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 597-608	4.9	80
19	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	4.4	67
18	Predictive toxicology using systemic biology and liver microfluidic "on chip" approaches: application to acetaminophen injury. <i>Toxicology and Applied Pharmacology</i> , 2012 , 259, 270-80	4.6	49
17	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, 1908-20		34
16	Metabolomics-on-a-chip and predictive systems toxicology in microfluidic bioartificial organs. <i>Analytical Chemistry</i> , 2012 , 84, 1840-8	7.8	82
15	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, 601-9	6.7	21
14	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	4.4	11
13	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, 310-9	4.4	22
12	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, 371-87	4.7	7
11	Improvement of HepG2/C3a cell functions in a microfluidic biochip. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1704-15	4.9	80
10	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	6.5	52
9	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, 103-16	3.4	50
8	Development of a physiologically based kinetic model for 99m-technetium-labelled carbon nanoparticles inhaled by humans. <i>Inhalation Toxicology</i> , 2009 , 21, 1099-107	2.7	63

7	Quantifying heterogeneity in exposure-risk relationships using exhaled breath biomarkers for 1,3-butadiene exposures. <i>Journal of Breath Research</i> , 2008 , 2, 037018	3.1	2
6	Physiologically-based Kinetic Modelling (PBK Modelling): meeting the 3Rs agenda. The report and recommendations of ECVAM Workshop 63. <i>ATLA Alternatives To Laboratory Animals</i> , 2007 , 35, 661-71	2.1	46
5	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, 168-83	5	27
4	Evaluation of antiangiogenic treatment effects on tumorsSmicrocirculation by Bayesian physiological pharmacokinetic modeling and magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2006 , 24, 1059-67	3.3	13
3	Use of a chemical probe to increase safety for human volunteers in toxicokinetic studies. <i>Risk Analysis</i> , 2005 , 25, 1559-71	3.9	6
2	Lumping in pharmacokinetics. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2005 , 32, 719-36	2.7	28
1	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, 553-62	3.9	1