

RÃ©my Beaudouin

List of Publications by Year in descending order

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51
papers

1,170
citations

471509

17
h-index

414414

32
g-index

51
all docs

51
docs citations

51
times ranked

1665
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Regulatory identification of BPA as an endocrine disruptor: Context and methodology. <i>Molecular and Cellular Endocrinology</i> , 2018, 475, 4-9.	3.2	83
3	Biodistribution and Clearance of TiO ₂ Nanoparticles in Rats after Intravenous Injection. <i>PLoS ONE</i> , 2015, 10, e0124490.	2.5	81
4	Combined use of local and ANOVA-based global sensitivity analyses for the investigation of a stochastic dynamic model: Application to the case study of an individual-based model of a fish population. <i>Ecological Modelling</i> , 2006, 193, 479-491.	2.5	65
5	A Physiologically Based Toxicokinetic Model for the Zebrafish <i>Danio rerio</i> . <i>Environmental Science & Technology</i> , 2014, 48, 781-790.	10.0	61
6	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
7	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
8	Comparative potency approach based on H2AX assay for estimating the genotoxicity of polycyclic aromatic hydrocarbons. <i>Toxicology and Applied Pharmacology</i> , 2012, 260, 58-64.	2.8	56
9	Biology-Based Modeling To Analyze Uranium Toxicity Data on <i>Daphnia magna</i> in a Multigeneration Study. <i>Environmental Science & Technology</i> , 2011, 45, 4151-4158.	10.0	41
10	An Individual-Based Model of Zebrafish Population Dynamics Accounting for Energy Dynamics. <i>PLoS ONE</i> , 2015, 10, e0125841.	2.5	39
11	Digestive enzymes and gut morphometric parameters of threespine stickleback (<i>Gasterosteus</i>) Tj ETQq1 1 0.784314,rgBT /Oyerlock 10	2.5	37
12	Selecting parameters for calibration via sensitivity analysis: An individual-based model of mosquitofish population dynamics. <i>Ecological Modelling</i> , 2008, 218, 29-48.	2.5	30
13	Energy-based modelling to assess effects of chemicals on <i>Caenorhabditis elegans</i> : A case study on uranium. <i>Chemosphere</i> , 2015, 120, 507-514.	8.2	30
14	Effects of bisphenol A on different trophic levels in a lotic experimental ecosystem. <i>Aquatic Toxicology</i> , 2013, 144-145, 186-198.	4.0	26
15	Individual-based model of <i>Chironomus riparius</i> population dynamics over several generations to explore adaptation following exposure to uranium-spiked sediments. <i>Ecotoxicology</i> , 2012, 21, 1225-1239.	2.4	24
16	Consequences of a multi-generation exposure to uranium on <i>Caenorhabditis elegans</i> life parameters and sensitivity. <i>Ecotoxicology</i> , 2013, 22, 869-878.	2.4	24
17	Determination of carbamazepine and 12 degradation products in various compartments of an outdoor aquatic mesocosm by reliable analytical methods based on liquid chromatography-tandem mass spectrometry. <i>Environmental Science and Pollution Research</i> , 2017, 24, 16893-16904.	5.3	21
18	Effects of diclofenac on sentinel species and aquatic communities in semi-natural conditions. <i>Ecotoxicology and Environmental Safety</i> , 2021, 211, 111812.	6.0	20

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19	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
20	Modelling the binding affinity of steroids to zebrafish sex hormone-binding globulin. SAR and QSAR in <i>Environmental Research</i> , 2014, 25, 407-421.	2.2	17
21	Elucidating the fate of perfluorooctanoate sulfonate using a rainbow trout (<i>Oncorhynchus mykiss</i>) physiologically-based toxicokinetic model. <i>Science of the Total Environment</i> , 2019, 691, 1297-1309.	8.0	17
22	Modelling population dynamics in mesocosms using an individual-based model coupled to a bioenergetics model. <i>Ecological Modelling</i> , 2019, 398, 55-66.	2.5	17
23	A critical review of effect modeling for ecological risk assessment of plant protection products. <i>Environmental Science and Pollution Research</i> , 2022, 29, 43448-43500.	5.3	17
24	An active biomonitoring approach using three-spined stickleback (<i>Gasterosteus aculeatus</i> , L.) to assess the efficiency of a constructed wetland as tertiary treatment of wastewater. <i>Ecological Indicators</i> , 2020, 114, 106238.	6.3	16
25	Modeling acetylcholine esterase inhibition resulting from exposure to a mixture of atrazine and chlorpyrifos using a physiologically-based kinetic model in fish. <i>Science of the Total Environment</i> , 2021, 773, 144734.	8.0	14
26	Transgenerational Adaptation to Pollution Changes Energy Allocation in Populations of Nematodes. <i>Environmental Science & Technology</i> , 2015, 49, 12500-12508.	10.0	13
27	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
28	Water quality of the Meuse watershed: Assessment using a multi-biomarker approach with caged three-spined stickleback (<i>Gasterosteus aculeatus</i> L.). <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111407.	6.0	13
29	A Generalized Physiologically Based Kinetic Model for Fish for Environmental Risk Assessment of Pharmaceuticals. <i>Environmental Science & Technology</i> , 2022, 56, 6500-6510.	10.0	12
30	Analysis of community-level mesocosm data based on ecologically meaningful dissimilarity measures and data transformation. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 1667-1679.	4.3	11
31	A Spatio-temporal Exposure-Hazard Model for Assessing Biological Risk and Impact. <i>Risk Analysis</i> , 2019, 39, 54-70.	2.7	11
32	Improving mesocosm data analysis through individual-based modelling of control population dynamics: a case study with mosquitofish (<i>Gambusia holbrooki</i>). <i>Ecotoxicology</i> , 2012, 21, 155-164.	2.4	10
33	A non-invasive method based on head morphology to sex mature three-spined stickleback (<i>Gasterosteus aculeatus</i> L.) in rearing conditions. <i>Mathematical Biosciences</i> , 2013, 244, 148-153.	1.9	10
34	COMPARISON OF SPECIES SENSITIVITY DISTRIBUTIONS BASED ON POPULATION OR INDIVIDUAL ENDPOINTS. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 1173-1177.	4.3	10
35	The toxicokinetics of bisphenol A and its metabolites in fish elucidated by a PBTK model. <i>Aquatic Toxicology</i> , 2022, 247, 106174.	4.0	10
36	A bioenergetics model of the entire life cycle of the three-spined stickleback, <i>Gasterosteus aculeatus</i> . <i>Ecology of Freshwater Fish</i> , 2018, 27, 116-127.	1.4	9

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37	Effects of chronic exposure to a pharmaceutical mixture on the three-spined stickleback (<i>Gasterosteus aculeatus</i>) population dynamics in lotic mesocosms. <i>Aquatic Toxicology</i> , 2020, 224, 105499.	4.0	9
38	Growth characteristics of eastern mosquitofish <i>Gambusia holbrooki</i> in a northern habitat (Brittany, France). <i>Journal of Fish Biology</i> , 2008, 73, 2468-2484.	1.6	8
39	BK/TD models for analyzing in vitro impedance data on cytotoxicity. <i>Toxicology Letters</i> , 2015, 235, 96-106.	0.8	8
40	Modelling the effect of season, sex, and body size on the three-spined stickleback, <i>Gasterosteus aculeatus</i> , cellular innate immunomarkers: A proposition of laboratory reference ranges. <i>Science of the Total Environment</i> , 2019, 648, 337-349.	8.0	8
41	Refining uptake and depuration constants for fluoroalkyl chemicals in <i>Chironomus riparius</i> larvae on the basis of experimental results and modelling. <i>Ecotoxicology and Environmental Safety</i> , 2018, 149, 284-290.	6.0	6
42	A two years field experiment to assess the impact of two fungicides on earthworm communities and their recovery. <i>Ecotoxicology and Environmental Safety</i> , 2020, 203, 110979.	6.0	6
43	Toxic effects of a mixture of five pharmaceutical drugs assessed using <i>Fontinalis antipyretica</i> Hedw.. <i>Ecotoxicology and Environmental Safety</i> , 2021, 225, 112727.	6.0	6
44	Individual sensitivity distribution evaluation from survival data using a mechanistic model: Implications for ecotoxicological risk assessment. <i>Chemosphere</i> , 2012, 89, 83-88.	8.2	5
45	Modelling BPA effects on three-spined stickleback population dynamics in mesocosms to improve the understanding of population effects. <i>Science of the Total Environment</i> , 2019, 692, 854-867.	8.0	5
46	Model-based estimation of the link between the daily survival probability and a time-varying covariate, application to mosquitofish survival data. <i>Mathematical Biosciences</i> , 2007, 210, 508-522.	1.9	4
47	Modelling historical mesocosm data: Application of a fish bioenergetics model in semi-natural conditions. <i>Ecology of Freshwater Fish</i> , 2018, 27, 1101-1113.	1.4	4
48	Reliability evaluation of biomarker reference ranges for mesocosm and field conditions: Cellular innate immunomarkers in <i>Gasterosteus aculeatus</i> . <i>Science of the Total Environment</i> , 2020, 698, 134333.	8.0	3
49	Multistate models of developmental toxicity: Application to valproic acid-induced malformations in the zebrafish embryo. <i>Toxicology and Applied Pharmacology</i> , 2021, 414, 115424.	2.8	3
50	A meta-analysis of ecotoxicological models used for plant protection product risk assessment before their placing on the market. <i>Science of the Total Environment</i> , 2022, 844, 157003.	8.0	2
51	Temperature effect on perfluorooctane sulfonate toxicokinetics in rainbow trout (<i>Oncorhynchus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 105545.	4.0	1