Sandrine Charles

List of Publications by Year
in descending order

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77 papers	1,751 citations	331670 21 h-index	345221 36 g-index
97 all docs	97 docs citations	97 times ranked	1616 citing authors

#	Article	IF	Citations
1	New perspectives on the calculation of bioaccumulation metrics for active substances in living organisms. Integrated Environmental Assessment and Management, 2022, 18, 10-18.	2.9	12
2	Taking full advantage of modelling to better assess environmental risk due to xenobioticsâ€"the all-in-one facility MOSAIC. Environmental Science and Pollution Research, 2022, 29, 29244-29257.	5.3	15
3	In Silico Methods for Environmental Risk Assessment: Principles, Tiered Approaches, Applications, and Future Perspectives. Methods in Molecular Biology, 2022, 2425, 589-636.	0.9	10
4	Accumulation-depuration data collection in support of toxicokinetic modelling. Scientific Data, 2022, 9, 130.	5.3	6
5	A critical review of effect modeling for ecological risk assessment of plant protection products. Environmental Science and Pollution Research, 2022, 29, 43448-43500.	5.3	17
6	rbioacc: An R-package to analyze toxicokinetic data. Ecotoxicology and Environmental Safety, 2022, 242, 113875.	6.0	2
7	A meta-analysis of ecotoxicological models used for plant protection product risk assessment before their placing on the market. Science of the Total Environment, 2022, 844, 157003.	8.0	2
8	Application of General Unified Threshold Models of Survival Models for Regulatory Aquatic Pesticide Risk Assessment Illustrated with an Example for the Insecticide Chlorpyrifos. Integrated Environmental Assessment and Management, 2021, 17, 243-258.	2.9	9
9	Keeping modelling notebooks with TRACE: Good for you and good for environmental research and management support. Environmental Modelling and Software, 2021, 136, 104932.	4.5	19
10	How to account for the uncertainty from standard toxicity tests in species sensitivity distributions: An example in non-target plants. PLoS ONE, 2021, 16, e0245071.	2.5	8
11	Generic Solving of One-compartment Toxicokinetic Models. Journal of Exploratory Research in Pharmacology, 2021, 000, 000-000.	0.4	1
12	morse: an R-package to analyse toxicity test data. Journal of Open Source Software, 2021, 6, 3200.	4.6	8
13	Title is missing!. , 2021, 16, e0245071.		0
14	Title is missing!. , 2021, 16, e0245071.		0
15	Title is missing!. , 2021, 16, e0245071.		0
16	Title is missing!. , 2021, 16, e0245071.		0
17	Recommendations to address uncertainties in environmental risk assessment using toxicokinetic-toxicodynamic models. Scientific Reports, 2019, 9, 11432.	3.3	25
18	New Insights to Compare and Choose TKTD Models for Survival Based on an Interlaboratory Study for Lymnaea stagnalis Exposed to Cd. Environmental Science & Technology, 2018, 52, 1582-1590.	10.0	25

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19	MOSAIC: a web-interface for statistical analyses in ecotoxicology. Environmental Science and Pollution Research, 2018, 25, 11295-11302.	5.3	39
20	Scientific Opinion on the state of the art of Toxicokinetic/Toxicodynamic (TKTD) effect models for regulatory risk assessment of pesticides for aquatic organisms. EFSA Journal, 2018, 16, e05377.	1.8	69
21	Fit Reduced GUTS Models Online: From Theory to Practice. Integrated Environmental Assessment and Management, 2018, 14, 625-630.	2.9	15
22	Combined effect of temperature and ammonia on molecular response and survival of the freshwater crustacean Gammarus pulex. Ecotoxicology and Environmental Safety, 2017, 137, 42-48.	6.0	20
23	Optimizing the design of a reproduction toxicity test with the pond snail Lymnaea stagnalis. Regulatory Toxicology and Pharmacology, 2016, 81, 47-56.	2.7	20
24	Modelling survival: exposure pattern, species sensitivity and uncertainty. Scientific Reports, 2016, 6, 29178.	3.3	56
25	Mechanistic modelling of daphnid-algae dynamics within a laboratory microcosm. Ecological Modelling, 2016, 320, 213-230.	2.5	12
26	Modelling algaeâ€“duckweed interaction under chemical pressure within a laboratory microcosm. Ecotoxicology and Environmental Safety, 2016, 128, 252-265.	6.0	6
27	Constructing Time-Resolved Species Sensitivity Distributions Using a Hierarchical Toxico-Dynamic Model. Environmental Science & Technology, 2015, 49, 12465-12473.	10.0	17
28	Hierarchical modelling of species sensitivity distribution: Development and application to the case of diatoms exposed to several herbicides. Ecotoxicology and Environmental Safety, 2015, 114, 212-221.	6.0	13
29	MOSAIC_SSD: A new web tool for species sensitivity distribution to include censored data by maximum likelihood. Environmental Toxicology and Chemistry, 2014, 33, 2133-2139.	4.3	34
30	Development and validation of an OECD reproductive toxicity test guideline with the pond snail Lymnaea stagnalis (Mollusca, Gastropoda). Regulatory Toxicology and Pharmacology, 2014, 70, 605-614.	2.7	49
31	Ecological Modeling for the Extrapolation of Ecotoxicological Effects Measured during in Situ Assays in Gammarus. Environmental Science & Technology, 2014, 48, 6428-6436.	10.0	16
32	Statistical Handling of Reproduction Data for Exposure-Response Modeling. Environmental Science & Technology, 2014, 48, 7544-7551.	10.0	23
33	Lifeâ€history phenology strongly influences population vulnerability to toxicants: A case study with the mudsnail Potamopyrgus antipodarum. Environmental Toxicology and Chemistry, 2013, 32, 1727-1736.	4.3	7
34	The molecular signal for the adaptation to cold temperature during early life on Earth. Biology Letters, 2013, 9, 20130608.	2.3	22
35	Population-Level Modeling to Account for Multigenerational Effects of Uranium in Daphnia magna. Environmental Science & Technology, 2012, 46, 1136-1143.	10.0	23
36	Comparison of bioassays with different exposure time patterns: The added value of dynamic modelling in predictive ecotoxicology. Ecotoxicology and Environmental Safety, 2012, 75, 80-86.	6.0	11

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37	What to do with NOECS/NOELSâ€"prohibition or innovation?. Integrated Environmental Assessment and Management, 2012, 8, 764-766.	2.9	21
38	Use of sensitivity analysis to identify influential and non-influential parameters within an aquatic ecosystem model. Ecological Modelling, 2012, 246, 119-130.	2.5	45
39	Survival data analyses in ecotoxicology: critical effect concentrations, methods and models. What should we use?. Ecotoxicology, 2012, 21, 1072-1083.	2.4	22
40	Towards a renewed research agenda in ecotoxicology. Environmental Pollution, 2012, 160, 201-206.	7.5	78
41	Bayesian modelling of daphnid responses to time-varying cadmium exposure in laboratory aquatic microcosms. Ecotoxicology and Environmental Safety, 2011, 74, 693-702.	6.0	20
42	In situ feeding assay with Gammarus fossarum (Crustacea): Modelling the influence of confounding factors to improve water quality biomonitoring. Water Research, 2011, 45, 6417-6429.	11.3	78
43	Modeling Nosocomial Transmission of Rotavirus inÂPediatric Wards. Bulletin of Mathematical Biology, 2011, 73, 1413-1442.	1.9	7
44	A new perspective on the Dunnett procedure: Filling the gap between NOEC/LOEC and ECx concepts. Environmental Toxicology and Chemistry, 2011, 30, 2888-2891.	4.3	19
45	Development of partial life-cycle experiments to assess the effects of endocrine disruptors on the freshwater gastropod Lymnaea stagnalis: a case-study with vinclozolin. Ecotoxicology, 2010, 19, 1312-1321.	2.4	35
46	Application of a temperature-dependent von Bertalanffy growth model to bullhead (Cottus gobio). Ecological Modelling, 2010, 221, 2475-2481.	2.5	18
47	From Individual to Population Level Effects of Toxicants in the Tubicifid Branchiura sowerbyi Using Threshold Effect Models in a Bayesian Framework. Environmental Science & Technology, 2010, 44, 3566-3571.	10.0	13
48	Matrix Population Models as Relevant Modeling Tools in Ecotoxicology. Emerging Topics in Ecotoxicology, 2009, , 261-298.	1.5	10
49	DEBtox theory and matrix population models as helpful tools in understanding the interaction between toxic cyanobacteria and zooplankton. Journal of Theoretical Biology, 2009, 258, 380-388.	1.7	14
50	Toxicity of ivermectin on cladocerans: Comparison of toxic effects onDaphnia and Ceriodaphniaspecies. Environmental Toxicology and Chemistry, 2009, 28, 2160-2166.	4.3	25
51	Studentsâ€™ performance and satisfaction with Web vs. paper-based practice quizzes and lecture notes. Computers and Education, 2009, 53, 375-384.	8.3	55
52	Statistical cautions when estimating DEBtox parameters. Journal of Theoretical Biology, 2008, 254, 55-64.	1.7	44
53	An individual-based model to describe a bullhead population dynamics including temperature variations. Ecological Modelling, 2008, 215, 377-392.	2.5	29
54	A Bayesian Approach to Analyzing Ecotoxicological Data. Environmental Science & Technology, 2008, 42, 8978-8984.	10.0	74

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55	Integrating the lethal and sublethal effects of toxic compounds into the population dynamics of Daphnia magna: A combination of the DEBtox and matrix population models. Ecological Modelling, 2007, 203, 204-214.	2.5	60
56	Dynamic energy budget as a basis to model populationâ€level effects of zincâ€spiked sediments in the gastropod Valvata piscinalis. Environmental Toxicology and Chemistry, 2007, 26, 1774-1783.	4.3	19
57	Evolution and invasion dynamics of multiple infections with Wolbachia investigated using matrix based models. Journal of Theoretical Biology, 2007, 245, 197-209.	1.7	22
58	Population Dynamics of Grayling: Modelling Temperature and Discharge Effects. Mathematical Modelling of Natural Phenomena, 2006, 1, 31-48.	2.4	5
59	First step of a modeling approach to evaluate spatial heterogeneity in a fish (Cottus gobio) population dynamics. Ecological Modelling, 2006, 197, 263-273.	2.5	11
60	TESD: a transposable element dynamics simulation environment. Bioinformatics, 2006, 22, 2702-2703.	4.1	7
61	The Dynamics of Transposable Elements in Structured Populations. Genetics, 2005, 169, 467-474.	2.9	42
62	Food availability effect on population dynamics of the midge Chironomus riparius: a Leslie modeling approach. Ecological Modelling, 2004, 175, 217-229.	2.5	25
63	Ecotoxicology and spatial modeling in population dynamics: An illustration with brown trout. Environmental Toxicology and Chemistry, 2003, 22, 958-969.	4.3	18
64	Do migratory or demographic disruptions rule the population impact of pollution in spatial networks?. Theoretical Population Biology, 2003, 64, 473-480.	1.1	18
65	Host Patch Selection Induced by Parasitism: Basic Reproduction Ratio R0 and Optimal Virulence. Theoretical Population Biology, 2002, 62, 97-109.	1.1	7
66	Using Aggregation Methods to Assess Toxicant Effects on Population Dynamics in Spatial Systems. , 2002, 12, 1771.		0
67	A mathematical model describing the thermal virus inactivation. Vaccine, 2001, 19, 3575-3582.	3.8	7
68	Artificial intelligence and meaning--some philosophical aspects of decision-making. Acta Biotheoretica, 2000, 48, 173-179.	1.5	0
69	Annual spawning migrations in modelling brown trout population dynamics inside an arborescent river network. Ecological Modelling, 2000, 133, 15-31.	2.5	40
70	Aggregation and emergence in ecological modelling: integration of ecological levels. Ecological Modelling, 2000, 127, 11-20.	2.5	66
71	Emergence of individual behaviour at the population level. Effects of density-dependent migration on population dynamics. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 2000, 323, 119-127.	0.8	8
72	Behavioral choices based on patch selection: a model using aggregation methods. Mathematical Biosciences, 1999, 157, 189-216.	1.9	14

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73	Dynamics of transposable elements under the selection model. Genetical Research, 1999, 74, 159-164.	0.9	21
74	Title is missing!. Acta Biotheoretica, 1998, 46, 223-234.	1.5	26
75	A density dependent model describing Salmo trutta population dynamics in an arborescent river network. Effects of dams and channelling. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 1998, 321, 979-990.	0.8	14
76	Reappraisal of the effect of temperature on the growth kinetics of Aeromonas salmonicida. Letters in Applied Microbiology, 1997, 25, 363-366.	2.2	3
77	The particular behaviour of Listeria monocytogenes under sub-optimal conditions. International Journal of Food Microbiology, 1996, 29, 201-211.	4.7	62