

Tjalling Jager

List of Publications by Year in descending order

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122
papers

6,247
citations

53660

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76769

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docs citations

123
times ranked

4788
citing authors

#	ARTICLE	IF	CITATIONS
1	Considerations for using reproduction data in toxicokinetic–toxicodynamic modeling. <i>Integrated Environmental Assessment and Management</i> , 2022, 18, 479-487.	1.6	6
2	The application and limitations of exposure multiplication factors in sublethal effect modelling. <i>Scientific Reports</i> , 2022, 12, 6031.	1.6	2
3	Testing a simple energy-budget model for yolk-feeding stages of cleaner fish. <i>Ecological Modelling</i> , 2022, 469, 110005.	1.2	1
4	How to analyse and account for interactions in mixture toxicity with toxicokinetic-toxicodynamic models. <i>Science of the Total Environment</i> , 2022, 843, 157048.	3.9	18
5	Robust Likelihood–Based Approach for Automated Optimization and Uncertainty Analysis of Toxicokinetic–Toxicodynamic Models. <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 388-397.	1.6	27
6	Predicting Mixture Effects over Time with Toxicokinetic–Toxicodynamic Models (GUTS): Assumptions, Experimental Testing, and Predictive Power. <i>Environmental Science & Technology</i> , 2021, 55, 2430-2439.	4.6	18
7	Analysing individual growth curves for the copepod <i>Tigriopus brevicornis</i> , while considering changes in shape. <i>Journal of Sea Research</i> , 2021, 174, 102075.	0.6	1
8	Effects of marine mine tailing exposure on the development, growth, and lipid accumulation in <i>Calanus finmarchicus</i> . <i>Chemosphere</i> , 2021, 282, 131051.	4.2	3
9	Exposure to low environmental copper concentrations does not affect survival and development in Atlantic cod (<i>Gadus morhua</i>) early life stages. <i>Toxicology Reports</i> , 2021, 8, 1909-1916.	1.6	0
10	Revisiting simplified DEBtox models for analysing ecotoxicity data. <i>Ecological Modelling</i> , 2020, 416, 108904.	1.2	37
11	Gill damage and delayed mortality of Northern shrimp (<i>Pandalus borealis</i>) after short time exposure to anti-parasitic veterinary medicine containing hydrogen peroxide. <i>Ecotoxicology and Environmental Safety</i> , 2019, 180, 473-482.	2.9	39
12	Automated, high-throughput measurement of size and growth curves of small organisms in well plates. <i>Scientific Reports</i> , 2019, 9, 10.	1.6	78
13	How to Evaluate the Quality of Toxicokinetic–Toxicodynamic Models in the Context of Environmental Risk Assessment. <i>Integrated Environmental Assessment and Management</i> , 2018, 14, 604-614.	1.6	27
14	Physiological modes of action across species and toxicants: the key to predictive ecotoxicology. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 48-57.	1.7	70
15	Simple energy-budget model for yolk-feeding stages of Atlantic cod (<i>Gadus morhua</i>). <i>Ecological Modelling</i> , 2018, 385, 213-219.	1.2	2
16	Toxicokinetics of Crude Oil Components in Arctic Copepods. <i>Environmental Science & Technology</i> , 2018, 52, 9899-9907.	4.6	24
17	Dynamic Links between Lipid Storage, Toxicokinetics and Mortality in a Marine Copepod Exposed to Dimethylnaphthalene. <i>Environmental Science & Technology</i> , 2017, 51, 7707-7713.	4.6	18
18	Modelling the dynamics of growth, development and lipid storage in the marine copepod <i>Calanus finmarchicus</i> . <i>Marine Biology</i> , 2017, 164, 1.	0.7	26

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19	Comment on "Robust Fit of Toxicokinetic-Toxicodynamic Models Using Prior Knowledge Contained in the Design of Survival Toxicity Tests". <i>Environmental Science & Technology</i> , 2017, 51, 8200-8201.	4.6	0
20	Dynamic Modeling for Uptake and Effects of Chemicals. , 2016, , 71-98.		7
21	Stage-dependent and sex-dependent sensitivity to water-soluble fractions of fresh and weathered oil in the marine copepod <i>Calanus finmarchicus</i> . <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 728-735.	2.2	23
22	Acute toxicity of dispersed crude oil on the cold-water copepod <i>Calanus finmarchicus</i> : Elusive implications of lipid content. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2016, 79, 549-557.	1.1	24
23	Predicting environmental risk: A road map for the future. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2016, 79, 572-584.	1.1	12
24	Modelling survival: exposure pattern, species sensitivity and uncertainty. <i>Scientific Reports</i> , 2016, 6, 29178.	1.6	56
25	Modelling growth of northern krill (<i>Meganyctiphanes norvegica</i>) using an energy-budget approach. <i>Ecological Modelling</i> , 2016, 325, 28-34.	1.2	14
26	Near-future ocean acidification impacts maintenance costs in sea-urchin larvae: Identification of stress factors and tipping points using a DEB modelling approach. <i>Journal of Experimental Marine Biology and Ecology</i> , 2016, 474, 11-17.	0.7	37
27	Parameterising a generic model for the dynamic energy budget of Antarctic krill <i>Euphausia superba</i> . <i>Marine Ecology - Progress Series</i> , 2015, 519, 115-128.	0.9	22
28	Capturing the life history of the marine copepod <i>Calanus sinicus</i> into a generic bioenergetics framework. <i>Ecological Modelling</i> , 2015, 299, 114-120.	1.2	15
29	Considerations for test design to accommodate energy-budget models in ecotoxicology: A case study for acetone in the pond snail <i>Lymnaea stagnalis</i> . <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 1466-1475.	2.2	12
30	Metabolic acceleration in the pond snail <i>Lymnaea stagnalis</i> ?. <i>Journal of Sea Research</i> , 2014, 94, 84-91.	0.6	14
31	Dynamic energy budgets in population ecotoxicology: Applications and outlook. <i>Ecological Modelling</i> , 2014, 280, 140-147.	1.2	73
32	Limitations of extrapolating toxic effects on reproduction to the population level. <i>Ecological Applications</i> , 2014, 24, 1972-1983.	1.8	36
33	Reconsidering sufficient and optimal test design in acute toxicity testing. <i>Ecotoxicology</i> , 2014, 23, 38-44.	1.1	14
34	Body size-mediated starvation resistance in an insect predator. <i>Journal of Animal Ecology</i> , 2014, 83, 758-768.	1.3	36
35	Dynamic Modeling of Sublethal Mixture Toxicity in the Nematode <i>Caenorhabditis elegans</i> . <i>Environmental Science & Technology</i> , 2014, 48, 7026-7033.	4.6	43
36	Extrapolating ecotoxicological effects from individuals to populations: a generic approach based on Dynamic Energy Budget theory and individual-based modeling. <i>Ecotoxicology</i> , 2013, 22, 574-583.	1.1	80

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37	DEBkiss or the quest for the simplest generic model of animal life history. <i>Journal of Theoretical Biology</i> , 2013, 328, 9-18.	0.8	78
38	Acute exposure of water soluble fractions of marine diesel on Arctic <i>Calanus glacialis</i> and boreal <i>Calanus finmarchicus</i> : Effects on survival and biomarker response. <i>Science of the Total Environment</i> , 2013, 449, 276-284.	3.9	56
39	Hormesis on life-history traits: is there such thing as a free lunch?. <i>Ecotoxicology</i> , 2013, 22, 263-270.	1.1	78
40	Predicting Population Dynamics from the Properties of Individuals: A Cross-Level Test of Dynamic Energy Budget Theory. <i>American Naturalist</i> , 2013, 181, 506-519.	1.0	95
41	All Individuals Are Not Created Equal; Accounting for Interindividual Variation in Fitting Life-History Responses to Toxicants. <i>Environmental Science & Technology</i> , 2013, 47, 130111083350000.	4.6	12
42	Linking survival and biomarker responses over time. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 1842-1845.	2.2	20
43	Time-related survival effects of two gluconasturtiin hydrolysis products on the terrestrial isopod <i>Porcellio scaber</i> . <i>Chemosphere</i> , 2012, 89, 1084-1090.	4.2	11
44	Juvenile food limitation in standardized tests: a warning to ecotoxicologists. <i>Ecotoxicology</i> , 2012, 21, 2195-2204.	1.1	31
45	Simplified Dynamic Energy Budget model for analysing ecotoxicity data. <i>Ecological Modelling</i> , 2012, 225, 74-81.	1.2	118
46	Dynamic Energy Budget theory meets individual-based modelling: a generic and accessible implementation. <i>Methods in Ecology and Evolution</i> , 2012, 3, 445-449.	2.2	116
47	Bad habits die hard: The NOEC's persistence reflects poorly on ecotoxicology. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 228-229.	2.2	71
48	Adding Value to Ecological Risk Assessment with Population Modeling. <i>Human and Ecological Risk Assessment (HERA)</i> , 2011, 17, 287-299.	1.7	90
49	Some Good Reasons to Ban EC ₁₀ and Related Concepts in Ecotoxicology. <i>Environmental Science & Technology</i> , 2011, 45, 8180-8181.	4.6	63
50	General Unified Threshold Model of Survival - a Toxicokinetic-Toxicodynamic Framework for Ecotoxicology. <i>Environmental Science & Technology</i> , 2011, 45, 2529-2540.	4.6	341
51	Interpreting toxicity data in a DEB framework: A case study for nonylphenol in the marine polychaete <i>Capitella teleta</i> . <i>Journal of Sea Research</i> , 2011, 66, 456-462.	0.6	22
52	Application of physiologically based modelling and transcriptomics to probe the systems toxicology of aldicarb for <i>Caenorhabditis elegans</i> (Maupas 1900). <i>Ecotoxicology</i> , 2011, 20, 397-408.	1.1	26
53	Toxicokinetic-toxicodynamic modeling of quantal and graded sublethal endpoints: A brief discussion of concepts. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 2519-2524.	2.2	77
54	A biology-based approach for mixture toxicity of multiple endpoints over the life cycle. <i>Ecotoxicology</i> , 2010, 19, 351-361.	1.1	96

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55	A review of DEB theory in assessing toxic effects of mixtures. <i>Science of the Total Environment</i> , 2010, 408, 3740-3745.	3.9	43
56	Understanding toxicity as processes in time. <i>Science of the Total Environment</i> , 2010, 408, 3735-3739.	3.9	87
57	Linking toxicant physiological mode of action with induced gene expression changes in <i>Caenorhabditis elegans</i> . <i>BMC Systems Biology</i> , 2010, 4, 32.	3.0	46
58	Time is of the essence. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 1396-1398.	2.2	29
59	Integrating population modeling into ecological risk assessment. <i>Integrated Environmental Assessment and Management</i> , 2010, 6, 191-193.	1.6	46
60	Extrapolating toxic effects on individuals to the population level: the role of dynamic energy budgets. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 3531-3540.	1.8	54
61	Estimation of no effect concentrations from exposure experiments when values scatter among individuals. <i>Ecological Modelling</i> , 2009, 220, 411-418.	1.2	13
62	A biology-based approach for quantitative structure-activity relationships (QSARs) in ecotoxicity. <i>Ecotoxicology</i> , 2009, 18, 187-196.	1.1	44
63	A model to analyze effects of complex mixtures on survival. <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 669-676.	2.9	40
64	Prediction of Daphnid Survival after in Situ Exposure to Complex Mixtures. <i>Environmental Science & Technology</i> , 2009, 43, 6064-6069.	4.6	16
65	Ecotoxicological Applications of Dynamic Energy Budget Theory. <i>Emerging Topics in Ecotoxicology</i> , 2009, , 237-259.	1.5	25
66	Modeling the environmental fate of perfluorooctanoate and its precursors from global fluorotelomer acrylate polymer use. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 2216-2223.	2.2	27
67	From foodâ€dependent statistics to metabolic parameters, a practical guide to the use of dynamic energy budget theory. <i>Biological Reviews</i> , 2008, 83, 533-552.	4.7	128
68	Scaling relationships based on partition coefficients and body sizes have similarities and interactionsâ€. <i>SAR and QSAR in Environmental Research</i> , 2007, 18, 315-330.	1.0	20
69	Novel view on predicting acute toxicity: Decomposing toxicity data in species vulnerability and chemical potency. <i>Ecotoxicology and Environmental Safety</i> , 2007, 67, 311-322.	2.9	24
70	Chronic exposure to chlorpyrifos reveals two modes of action in the springtail <i>Folsomia candida</i> . <i>Environmental Pollution</i> , 2007, 145, 452-458.	3.7	42
71	Temporal Dynamics of Effect Concentrations. <i>Environmental Science & Technology</i> , 2006, 40, 2478-2484.	4.6	28
72	PHYSIOLOGICAL MODES OF ACTION OF TOXIC CHEMICALS IN THE NEMATODE ACROBELOIDES NANUS. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 3230.	2.2	75

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73	Making Sense of Ecotoxicological Test Results: Towards Application of Process-based Models. <i>Ecotoxicology</i> , 2006, 15, 305-314.	1.1	195
74	Modeling responses of <i>Daphnia magna</i> to pesticide pulse exposure under varying food conditions: intrinsic versus apparent sensitivity. <i>Ecotoxicology</i> , 2006, 15, 601-608.	1.1	58
75	Using process-based modelling to analyse earthworm life cycles. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1-6.	4.2	30
76	Kinetics of Zn and Cd accumulation in the isopod <i>Porcellio scaber</i> exposed to contaminated soil and/or food. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1554-1563.	4.2	44
77	Responses to stress of <i>Caenorhabditis elegans</i> populations with different reproductive strategies. <i>Functional Ecology</i> , 2005, 19, 656-664.	1.7	46
78	Modelling nematode life cycles using dynamic energy budgets. <i>Functional Ecology</i> , 2005, 19, 136-144.	1.7	49
79	Biphasic elimination and uptake kinetics of Zn and Cd in the earthworm <i>Lumbricus rubellus</i> exposed to contaminated floodplain soil. <i>Soil Biology and Biochemistry</i> , 2005, 37, 1843-1851.	4.2	49
80	Short-term ecological risks of depositing contaminated sediment on arable soil. <i>Ecotoxicology and Environmental Safety</i> , 2005, 60, 1-14.	2.9	10
81	Modeling Receptor Kinetics in the Analysis of Survival Data for Organophosphorus Pesticides. <i>Environmental Science & Technology</i> , 2005, 39, 8307-8314.	4.6	42
82	Bioaccumulation of Organic Chemicals in Contaminated Soils: Evaluation of Bioassays with Earthworms. <i>Environmental Science & Technology</i> , 2005, 39, 293-298.	4.6	83
83	Bioaccumulation of organic chemicals in contaminated soils: evaluation of bioassays with earthworms. <i>Environmental Science & Technology</i> , 2005, 39, 293-8.	4.6	4
84	Simultaneous Modeling of Multiple End Points in Life-Cycle Toxicity Tests. <i>Environmental Science & Technology</i> , 2004, 38, 2894-2900.	4.6	94
85	Solid-Phase Microextraction To Predict Bioavailability and Accumulation of Organic Micropollutants in Terrestrial Organisms after Exposure to a Field-Contaminated Soil. <i>Environmental Science & Technology</i> , 2004, 38, 4842-4848.	4.6	143
86	The relationship between elimination rates and partition coefficients. <i>Chemosphere</i> , 2004, 57, 745-753.	4.2	18
87	Modeling ingestion as an exposure route for organic chemicals in earthworms (<i>Oligochaeta</i>). <i>Ecotoxicology and Environmental Safety</i> , 2004, 57, 30-38.	2.9	31
88	Feeding activity of the earthworm <i>Eisenia andrei</i> in artificial soil. <i>Soil Biology and Biochemistry</i> , 2003, 35, 313-322.	4.2	41
89	Availability of polycyclic aromatic hydrocarbons to earthworms (<i>Eisenia andrei</i> , <i>Oligochaeta</i>) in field-polluted soils and soil-sediment mixtures. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 767-775.	2.2	36
90	Prediction of ecological no-effect concentrations for initial risk assessment: Combining substance-specific data and database information. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 1387-1393.	2.2	24

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91	Sorption Kinetics and Microbial Biodegradation Activity of Hydrophobic Chemicals in Sewage Sludge: A Model and Measurements Based on Free Concentrations. <i>Environmental Science & Technology</i> , 2003, 37, 116-122.	4.6	54
92	Temperature-Dependent Effects of Cadmium on <i>Daphnia magna</i> : Accumulation versus Sensitivity. <i>Environmental Science & Technology</i> , 2003, 37, 2145-2151.	4.6	194
93	Metal uptake from soils and soil-sediment mixtures by larvae of <i>Tenebrio molitor</i> (L.) (Coleoptera). <i>Ecotoxicology and Environmental Safety</i> , 2003, 54, 277-289.	2.9	79
94	Monitoring approaches to assess bioaccessibility and bioavailability of metals: Matrix issues. <i>Ecotoxicology and Environmental Safety</i> , 2003, 56, 63-77.	2.9	288
95	Feeding behaviour of <i>Eisenia andrei</i> in two different field contaminated soils. <i>Pedobiologia</i> , 2003, 47, 670-675.	0.5	2
96	Elucidating the Routes of Exposure for Organic Chemicals in the Earthworm, <i>Eisenia andrei</i> (Oligochaeta). <i>Environmental Science & Technology</i> , 2003, 37, 3399-3404.	4.6	194
97	Feeding behaviour of <i>Eisenia andrei</i> in two different field contaminated soils The 7th international symposium on earthworm ecology - Cardiff - Wales - 2002. <i>Pedobiologia</i> , 2003, 47, 670-675.	0.5	11
98	AVAILABILITY OF POLYCYCLIC AROMATIC HYDROCARBONS TO EARTHWORMS (<i>EISENIA ANDREI</i>), <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> <i>Chemistry</i> , 2003, 22, 767.	2.2	3
99	Availability of polycyclic aromatic hydrocarbons to earthworms (<i>Eisenia andrei</i> , <i>Oligochaeta</i>) in field-polluted soils and soil-sediment mixtures. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 767-75.	2.2	27
100	Prediction of ecological no-effect concentrations for initial risk assessment: combining substance-specific data and database information. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 1387-93.	2.2	6
101	Comparison of two screening level risk assessment approaches for six disinfectants and pharmaceuticals. <i>Chemosphere</i> , 2002, 47, 1113-1128.	4.2	31
102	Standardizing chemical risk assessment, at last. <i>Nature</i> , 2002, 415, 14-14.	13.7	20
103	Opportunities for a probabilistic risk assessment of chemicals in the European Union. <i>Chemosphere</i> , 2001, 43, 257-264.	4.2	54
104	Probabilistic Environmental Risk Assessment for Dibutylphthalate (DBP). <i>Human and Ecological Risk Assessment (HERA)</i> , 2001, 7, 1681-1697.	1.7	14
105	Impact of metal pools and soil properties on metal accumulation in <i>Folsomia candida</i> (Collembola). <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 712-720.	2.2	45
106	A Probabilistic Human Health Risk Assessment for Environmental Exposure to Dibutylphthalate. <i>Human and Ecological Risk Assessment (HERA)</i> , 2001, 7, 1663-1679.	1.7	19
107	IMPACT OF METAL POOLS AND SOIL PROPERTIES ON METAL ACCUMULATION IN <i>FOLSOMIA CANDIDA</i> (COLLEMBOLA). <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 712.	2.2	31
108	Toxicokinetics of polycyclic aromatic hydrocarbons in <i>Eisenia andrei</i> (Oligochaeta) using spiked soil. <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 953-961.	2.2	82

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109	Quantification of Metal Bioavailability for Lettuce (<i>Lactuca sativa</i> L.) in Field Soils. <i>Archives of Environmental Contamination and Toxicology</i> , 2000, 39, 420-430.	2.1	106
110	Priority assessment of toxic substances in life cycle assessment. Part I: Calculation of toxicity potentials for 181 substances with the nested multi-media fate, exposure and effects model USES-LCA. <i>Chemosphere</i> , 2000, 41, 541-573.	4.2	247
111	Priority assessment of toxic substances in life cycle assessment. Part II: assessing parameter uncertainty and human variability in the calculation of toxicity potentials. <i>Chemosphere</i> , 2000, 41, 575-588.	4.2	64
112	TOXICOKINETICS OF POLYCYCLIC AROMATIC HYDROCARBONS IN <i>EISENIA ANDREI</i> (OLIGOCHAETA) USING SPIKED SOIL. <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 953.	2.2	12
113	Prediction of Metal Bioavailability in Dutch Field Soils for the Oligochaete <i>Enchytraeus crypticus</i> . <i>Ecotoxicology and Environmental Safety</i> , 1999, 43, 170-186.	2.9	105
114	Relating Environmental Availability to Bioavailability: Soil-Type-Dependent Metal Accumulation in the Oligochaete <i>Eisenia andrei</i> . <i>Ecotoxicology and Environmental Safety</i> , 1999, 44, 294-310.	2.9	163
115	Bioconcentration of gaseous organic chemicals in plant leaves: Comparison of experimental data with model predictions. <i>Environmental Toxicology and Chemistry</i> , 1998, 17, 962-968.	2.2	18
116	Mechanistic approach for estimating bioconcentration of organic chemicals in earthworms (<i>oligochaeta</i>). <i>Environmental Toxicology and Chemistry</i> , 1998, 17, 2080-2090.	2.2	81
117	Modelling the influence of terrestrial vegetation on the environmental fate of xenobiotics. <i>Chemosphere</i> , 1998, 37, 41-62.	4.2	37
118	Mechanistic approach for estimating bioconcentration of organic chemicals in earthworms (<i>oligochaeta</i>). , 1998, 17, 2080.		5
119	European Union System for the Evaluation of Substances (EUSES). Principles and structure. <i>Chemosphere</i> , 1997, 34, 1823-1836.	4.2	100
120	Validation of models on uptake of organic chemicals by plant roots. <i>Environmental Toxicology and Chemistry</i> , 1995, 14, 1615-1623.	2.2	34
121	Uniform system for the evaluation of substances II Effects assessment. <i>Chemosphere</i> , 1994, 29, 319-335.	4.2	10
122	Uniform system for the evaluation of substances IV Distribution and intake. <i>Chemosphere</i> , 1994, 29, 353-369.	4.2	11