Roman Ashauer

List of Publications by Year
in descending order

72	4,099	125106 35	129628 63
papers	citations	h-index	g-index

74	74	74	4173
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Considerations for using reproduction data in toxicokineticâ€“toxicodynamic modeling. Integrated Environmental Assessment and Management, 2022, 18, 479-487.	1.6	6
2	Modelling the effects of variability in feeding rate on growth â€“ a vital step for DEB-TKTD modelling. Ecotoxicology and Environmental Safety, 2022, 232, 113231.	2.9	2
3	The application and limitations of exposure multiplication factors in sublethal effect modelling. Scientific Reports, 2022, 12, 6031.	1.6	2
4	Fish Species Sensitivity Ranking Depends on Pesticide Exposure Profiles. Environmental Toxicology and Chemistry, 2022, 41, 1732-1741.	2.2	2
5	Interactive effects of multiple stressors vary with consumer interactions, stressor dynamics and magnitude. Ecology Letters, 2022, 25, 1483-1496.	3.0	30
6	How to analyse and account for interactions in mixture toxicity with toxicokinetic-toxicodynamic models. Science of the Total Environment, 2022, 843, 157048.	3.9	18
7	Mechanistic Effect Modeling of Earthworms in the Context of Pesticide Risk Assessment: Synthesis of the FORESEE Workshop. Integrated Environmental Assessment and Management, 2021, 17, 352-363.	1.6	18
8	Predicting Mixture Effects over Time with Toxicokineticâ€“Toxicodynamic Models (GUTS): Assumptions, Experimental Testing, and Predictive Power. Environmental Science & Technology, 2021, 55, 2430-2439.	4.6	18
9	Bioenergetics modelling to analyse and predict the joint effects of multiple stressors: Meta-analysis and model corroboration. Science of the Total Environment, 2020, 749, 141509.	3.9	18
10	Effect Modeling Quantifies the Difference Between the Toxicity of Average Pesticide Concentrations and Timeâ€Variable Exposures from Water Quality Monitoring. Environmental Toxicology and Chemistry, 2020, 39, 2158-2168.	2.2	5
11	Sublethal effect modelling for environmental risk assessment of chemicals: Problem definition, model variants, application and challenges. Science of the Total Environment, 2020, 745, 141027.	3.9	24
12	A knowledge-based approach to designing control strategies for agricultural pests. Agricultural Systems, 2020, 183, 102865.	3.2	8
13	Common ground between growth models of rival theories: A useful illustration for beginners. Ecological Modelling, 2019, 407, 108712.	1.2	3
14	Toxicokineticâ€“Toxicodynamic Modeling of the Effects of Pesticides on Growth of Rattus norvegicus. Chemical Research in Toxicology, 2019, 32, 2281-2294.	1.7	9
15	Building and Applying Quantitative Adverse Outcome Pathway Models for Chemical Hazard and Risk Assessment. Environmental Toxicology and Chemistry, 2019, 38, 1850-1865.	2.2	105
16	Factors Affecting the Growth of Pseudokirchneriella subcapitata in Singleâ€Species Tests: Lessons for the Experimental Design and the Reproducibility of a Multitrophic Laboratory Microcosm. Environmental Toxicology and Chemistry, 2019, 38, 1120-1131.	2.2	1
17	Automated, high-throughput measurement of size and growth curves of small organisms in well plates. Scientific Reports, 2019, 9, 10.	1.6	78
18	How to Evaluate the Quality of Toxicokineticâ€”Toxicodynamic Models in the Context of Environmental Risk Assessment. Integrated Environmental Assessment and Management, 2018, 14, 604-614.	1.6	27

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19	Physiological modes of action across species and toxicants: the key to predictive ecotoxicology. Environmental Sciences: Processes and Impacts, 2018, 20, 48-57.	1.7	70
20	A standardized tritrophic smallâ€scale system (TriCosm) for the assessment of stressorâ€induced effects on aquatic community dynamics. Environmental Toxicology and Chemistry, 2018, 37, 1051-1060.	2.2	4
21	Toward refined environmental scenarios for ecological risk assessment of down-the-drain chemicals in freshwater environments. Integrated Environmental Assessment and Management, 2017, 13, 233-248.	1.6	28
22	Prediction of pest pressure on corn root nodes: the POPP-Corn model. Journal of Pest Science, 2017, 90, 161-172.	1.9	4
23	Toxic Mixtures in Timeâ€”The Sequence Makes the Poison. Environmental Science & Technology, 2017, 51, 3084-3092.	4.6	52
24	Integrated presentation of ecological risk from multiple stressors. Scientific Reports, 2016, 6, 36004.	1.6	34
25	Reintroducing Environmental Change Drivers in Biodiversityâ€“Ecosystem Functioning Research. Trends in Ecology and Evolution, 2016, 31, 905-915.	4.2	110
26	Using toxicokineticâ€toxicodynamic modeling as an acute risk assessment refinement approach in vertebrate ecological risk assessment. Integrated Environmental Assessment and Management, 2016, 12, 32-45.	1.6	18
27	Modelling survival: exposure pattern, species sensitivity and uncertainty. Scientific Reports, 2016, 6, 29178.	1.6	56
28	Post-ozonation in a municipal wastewater treatment plant improves water quality in the receiving stream. Environmental Sciences Europe, 2016, 28, 1.	2.6	34
29	Computationally Efficient Implementation of a Novel Algorithm for the General Unified Threshold Model of Survival (GUTS). PLoS Computational Biology, 2016, 12, e1004978.	1.5	8
30	Death Dilemma and Organism Recovery in Ecotoxicology. Environmental Science & Technology, 2015, 49, 10136-10146.	4.6	42
31	Toxicology across scales: Cell population growth in vitro predicts reduced fish growth. Science Advances, 2015, 1, e1500302.	4.7	33
32	Imidacloprid perturbs feeding of Gammarus pulex at environmentally relevant concentrations. Environmental Toxicology and Chemistry, 2014, 33, 648-653.	2.2	50
33	Minimised Bioconcentration Tests: A Useful Tool for Assessing Chemical Uptake into Terrestrial and Aquatic Invertebrates?. Environmental Science & Technology, 2014, 48, 13497-13503.	4.6	13
34	Modeling the contribution of toxicokinetic and toxicodynamic processes to the recovery of Gammarus pulex populations after exposure to pesticides. Environmental Toxicology and Chemistry, 2014, 33, 1476-1488.	2.2	26
35	Importance of Toxicokinetics for Interspecies Variation in Sensitivity to Chemicals. Environmental Science & Technology, 2014, 48, 5946-5954.	4.6	72
36	Nanopesticides: Guiding Principles for Regulatory Evaluation of Environmental Risks. Journal of Agricultural and Food Chemistry, 2014, 62, 4227-4240.	2.4	308

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37	Measured and Modeled Toxicokinetics in Cultured Fish Cells and Application to In Vitro - In Vivo Toxicity Extrapolation. PLoS ONE, 2014, 9, e92303.	1.1	65
38	Bioconcentration of Organic Contaminants in Daphnia Resting Eggs. Environmental Science & Technology, 2013, 47, 130909151641005.	4.6	7
39	Effects of repeated pulsed herbicide exposures on the growth of aquatic macrophytes. Environmental Toxicology and Chemistry, 2013, 32, 193-200.	2.2	39
40	Comparative Toxicokinetics of Organic Micropollutants in Freshwater Crustaceans. Environmental Science & Technology, 2013, 47, 130712083046004.	4.6	13
41	A method to predict and understand fish survival under dynamic chemical stress using standard ecotoxicity data. Environmental Toxicology and Chemistry, 2013, 32, 954-965.	2.2	64
42	Highly timeâ€variable exposure to chemicalsâ€”toward an assessment strategy. Integrated Environmental Assessment and Management, 2013, 9, e27-33.	1.6	31
43	The Insecticide Imidacloprid Causes Mortality of the Freshwater Amphipod Gammarus pulex by Interfering with Feeding Behavior. PLoS ONE, 2013, 8, e62472.	1.1	101
44	Toxicokinetic-toxicodynamic modelling of survival of Gammarus pulex in multiple pulse exposures to propiconazole: model assumptions, calibration data requirements and predictive power. Ecotoxicology, 2012, 21, 1828-1840.	1.1	78
45	Significance of Xenobiotic Metabolism for Bioaccumulation Kinetics of Organic Chemicals in Gammarus pulex. Environmental Science & Technology, 2012, 46, 3498-3508.	4.6	84
46	Predicting Concentrations of Organic Chemicals in Fish by Using Toxicokinetic Models. Environmental Science & Technology, 2012, 46, 3273-3280.	4.6	113
47	Toxicokinetic and toxicodynamic model for diazinon toxicityâ€”mechanistic explanation of differences in the sensitivity of Daphnia magna and Gammarus pulex. Environmental Toxicology and Chemistry, 2012, 31, 2014-2022.	2.2	22
48	Uptake and depuration of pharmaceuticals in aquatic invertebrates. Environmental Pollution, 2012, 165, 250-258.	3.7	160
49	Bayesian experimental design for a toxicokineticâ€“toxicodynamic model. Journal of Statistical Planning and Inference, 2012, 142, 263-275.	0.4	20
50	Environmental Risk Assessment of Fluctuating Diazinon Concentrations in an Urban and Agricultural Catchment Using Toxicokineticâ€“Toxicodynamic Modeling. Environmental Science & Technology, 2011, 45, 9783-9792.	4.6	30
51	Mechanistic Toxicodynamic Model for Receptor-Mediated Toxicity of Diazoxon, the Active Metabolite of Diazinon, in Daphnia magna. Environmental Science & Technology, 2011, 45, 4980-4987.	4.6	21
52	Toxicokinetic Model Describing Bioconcentration and Biotransformation of Diazinon in Daphnia magna. Environmental Science & Technology, 2011, 45, 4995-5002.	4.6	35
53	General Unified Threshold Model of Survival - a Toxicokinetic-Toxicodynamic Framework for Ecotoxicology. Environmental Science & Technology, 2011, 45, 2529-2540.	4.6	341
54	Acute toxicity of organic chemicals to Gammarus pulex correlates with sensitivity of Daphnia magna across most modes of action. Aquatic Toxicology, 2011, 103, 38-45.	1.9	59

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55	Toxicokineticâ€toxicodynamic modeling of quantal and graded sublethal endpoints: A brief discussion of concepts. Environmental Toxicology and Chemistry, 2011, 30, 2519-2524.	2.2	77
56	Crucial role of mechanisms and modes of toxic action for understanding tissue residue toxicity and internal effect concentrations of organic chemicals. Integrated Environmental Assessment and Management, 2011, 7, 28-49.	1.6	121
57	Framework for traitsâ€based assessment in ecotoxicology. Integrated Environmental Assessment and Management, 2011, 7, 172-186.	1.6	123
58	Toxicokineticâ€“toxicodynamic modelling in an individual based contextâ€”Consequences of parameter variability. Ecological Modelling, 2010, 221, 1325-1328.	1.2	20
59	Bioaccumulation kinetics of organic xenobiotic pollutants in the freshwater invertebrateGammarus pulexmodeled with prediction intervals. Environmental Toxicology and Chemistry, 2010, 29, 1625-1636.	2.2	82
60	Toxicokinetic variation in 15 freshwater arthropod species exposed to the insecticide chlorpyrifos. Environmental Toxicology and Chemistry, 2010, 29, 2225-2234.	2.2	75
61	Advantages of toxicokinetic and toxicodynamic modelling in aquatic ecotoxicology and risk assessment. Journal of Environmental Monitoring, 2010, 12, 2056.	2.1	165
62	Toxicokinetic and Toxicodynamic Modeling Explains Carry-over Toxicity from Exposure to Diazinon by Slow Organism Recovery. Environmental Science & Technology, 2010, 44, 3963-3971.	4.6	96
63	Mechanistic effect models for ecological risk assessment of chemicals (MEMoRisk)â€”a new SETAC-Europe Advisory Group. Environmental Science and Pollution Research, 2009, 16, 250-252.	2.7	32
64	CREAM: a European project on mechanistic effect models for ecological risk assessment of chemicals. Environmental Science and Pollution Research, 2009, 16, 614-617.	2.7	63
65	Effects of agricultural conditions on the leaching behaviour of veterinary antibiotics in soils. Chemosphere, 2009, 75, 13-19.	4.2	121
66	Toxicodynamic assumptions in ecotoxicological hazard models. Environmental Toxicology and Chemistry, 2008, 27, 1817-1821.	2.2	58
67	New Ecotoxicological Model To Simulate Survival of Aquatic Invertebrates after Exposure to Fluctuating and Sequential Pulses of Pesticides. Environmental Science & Technology, 2007, 41, 1480-1486.	4.6	144
68	Modeling Combined Effects of Pulsed Exposure to Carbaryl and Chlorpyrifos onGammarus Pulex. Environmental Science & Technology, 2007, 41, 5535-5541.	4.6	71
69	Simulating Toxicity of Carbaryl to Gammarus pulex after Sequential Pulsed Exposure. Environmental Science & Technology, 2007, 41, 5528-5534.	4.6	48
70	TOXICODYNAMIC ASSUMPTIONS IN ECOTOXICOLOGICAL HAZARD MODELS. Environmental Toxicology and Chemistry, 2007, preprint, 1.	2.2	6
71	PREDICTING EFFECTS ON AQUATIC ORGANISMS FROM FLUCTUATING OR PULSED EXPOSURE TO PESTICIDES. Environmental Toxicology and Chemistry, 2006, 25, 1899.	2.2	125
72	Uptake and Elimination of Chlorpyrifos and Pentachlorophenol into the Freshwater Amphipod Gammarus pulex. Archives of Environmental Contamination and Toxicology, 2006, 51, 542-548.	2.1	51