

# Thomas Backhaus

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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.

90  
papers

7,075  
citations

42  
h-index

83  
g-index

121  
ext. papers

7,785  
ext. citations

5.5  
avg, IF

5.89  
L-index

#	Paper	IF	Citations
90	Demonstration of an aggregated biomarker response approach to assess the impact of point and diffuse contaminant sources in feral fish in a small river case study. <i>Science of the Total Environment</i> , <b>2022</b> , 804, 150020	10.2	0
89	Single substance and mixture toxicity of dibutyl-phthalate and sodium dodecyl sulphate to marine zooplankton.. <i>Ecotoxicology and Environmental Safety</i> , <b>2022</b> , 234, 113406	7	1
88	Indeed, Science Is Inherently Political But Must Not Become Partisan. <i>Integrated Environmental Assessment and Management</i> , <b>2020</b> , 16, 9	2.5	
87	Risk Assessment of Pesticide Mixtures in Australian Rivers Discharging to the Great Barrier Reef. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 14361-14371	10.3	7
86	Tolerance Patterns in Stream Biofilms Link Complex Chemical Pollution to Ecological Impacts. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 10745-10753	10.3	7
85	Microplastics in the Environment: Much Ado about Nothing? A Debate. <i>Global Challenges</i> , <b>2020</b> , 4, 1900023	4.3	22
84	Effect-based methods are key. The European Collaborative Project SOLUTIONS recommends integrating effect-based methods for diagnosis and monitoring of water quality. <i>Environmental Sciences Europe</i> , <b>2019</b> , 31,	5	82
83	Future water quality monitoring: improving the balance between exposure and toxicity assessments of real-world pollutant mixtures. <i>Environmental Sciences Europe</i> , <b>2019</b> , 31,	5	96
82	Making Out That Science Is Political Is Actually Unavoidable (Author's Reply). <i>Integrated Environmental Assessment and Management</i> , <b>2019</b> , 15, 676	2.5	2
81	Strengthen the European collaborative environmental research to meet European policy goals for achieving a sustainable, non-toxic environment. <i>Environmental Sciences Europe</i> , <b>2019</b> , 31,	5	5
80	Prioritisation of water pollutants: the EU Project SOLUTIONS proposes a methodological framework for the integration of mixture risk assessments into prioritisation procedures under the European Water Framework Directive. <i>Environmental Sciences Europe</i> , <b>2019</b> , 31,	5	13
79	Assessing the ecological impact of chemical pollution on aquatic ecosystems requires the systematic exploration and evaluation of four lines of evidence. <i>Environmental Sciences Europe</i> , <b>2019</b> , 31,	5	11
78	Improved component-based methods for mixture risk assessment are key to characterize complex chemical pollution in surface waters. <i>Environmental Sciences Europe</i> , <b>2019</b> , 31,	5	26
77	Exploring the Solution space is key: SOLUTIONS recommends an early-stage assessment of options to protect and restore water quality against chemical pollution. <i>Environmental Sciences Europe</i> , <b>2019</b> , 31,	5	15
76	Mixture risks threaten water quality: the European Collaborative Project SOLUTIONS recommends changes to the WFD and better coordination across all pieces of European chemicals legislation to improve protection from exposure of the aquatic environment to multiple pollutants. <i>Environmental Sciences Europe</i> , <b>2019</b> , 31,	5	27
75	Toward sustainable environmental quality: Priority research questions for Europe. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 2281-2295	3.8	68
74	Copper Affects Composition and Functioning of Microbial Communities in Marine Biofilms at Environmentally Relevant Concentrations. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 3248	5.7	20

73	Toward harmonizing ecotoxicity characterization in life cycle impact assessment. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 2955-2971	3.8	38
72	Evaluating the environmental hazard of industrial chemicals from data collected during the REACH registration process. <i>Science of the Total Environment</i> , <b>2017</b> , 586, 658-665	10.2	18
71	Pesticide mixtures in the Swedish streams: Environmental risks, contributions of individual compounds and consequences of single-substance oriented risk mitigation. <i>Science of the Total Environment</i> , <b>2017</b> , 598, 973-983	10.2	51
70	Antimicrobial activity of pharmaceutical cocktails in sewage treatment plant effluent - An experimental and predictive approach to mixture risk assessment. <i>Environmental Pollution</i> , <b>2017</b> , 231, 1507-1517	9.3	17
69	Scientific Challenges in the Risk Assessment of Food Contact Materials. <i>Environmental Health Perspectives</i> , <b>2017</b> , 125, 095001	8.4	66
68	Chemical monitoring of Swedish coastal waters indicates common exceedances of environmental thresholds, both for individual substances as well as their mixtures. <i>Marine Pollution Bulletin</i> , <b>2017</b> , 122, 409-419	6.7	16
67	Three methods for integration of environmental risk into the benefit-risk assessment of veterinary medicinal products. <i>Science of the Total Environment</i> , <b>2017</b> , 605-606, 692-701	10.2	1
66	Toward a conceptual approach for assessing risks from chemical mixtures and other stressors to coastal ecosystem services. <i>Integrated Environmental Assessment and Management</i> , <b>2017</b> , 13, 376-386	2.5	11
65	Mixed messages from benthic microbial communities exposed to nanoparticulate and ionic silver: 3D structure picks up nano-specific effects, while EPS and traditional endpoints indicate a concentration-dependent impact of silver ions. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 4218-34	5.1	11
64	The toxicity of the three antifouling biocides DCOIT, TPBP and medetomidine to the marine pelagic copepod <i>Acartia tonsa</i> . <i>Ecotoxicology</i> , <b>2016</b> , 25, 871-9	2.9	25
63	Environmental Risk Assessment of Pharmaceutical Mixtures: Demands, Gaps, and Possible Bridges. <i>AAPS Journal</i> , <b>2016</b> , 18, 804-13	3.7	33
62	Ecotoxicological assessment of antibiotics: A call for improved consideration of microorganisms. <i>Environment International</i> , <b>2015</b> , 85, 189-205	12.9	145
61	The SOLUTIONS project: challenges and responses for present and future emerging pollutants in land and water resources management. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 22-31	10.2	149
60	In Response: Prioritization and standard setting for pollutant mixtures in the aquatic environment: A business consultant's perspective. <i>Environmental Toxicology and Chemistry</i> , <b>2015</b> , 34, 2185-7	3.8	2
59	Long-term effects of the antibacterial agent triclosan on marine periphyton communities. <i>Environmental Toxicology and Chemistry</i> , <b>2015</b> , 34, 2067-77	3.8	18
58	A quick and robust method for quantification of the hypersensitive response in plants. <i>PeerJ</i> , <b>2015</b> , 3, e1469	3.1	18
57	Future water quality monitoring--adapting tools to deal with mixtures of pollutants in water resource management. <i>Science of the Total Environment</i> , <b>2015</b> , 512-513, 540-551	10.2	198
56	Exploring the planetary boundary for chemical pollution. <i>Environment International</i> , <b>2015</b> , 78, 8-15	12.9	93

55	Screening level mixture risk assessment of pharmaceuticals in STP effluents. <i>Water Research</i> , <b>2014</b> , 49, 157-65	12.5	101
54	Medicines, shaken and stirred: a critical review on the ecotoxicology of pharmaceutical mixtures. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 369,	5.8	89
53	Toxicity of ciprofloxacin and sulfamethoxazole to marine periphytic algae and bacteria. <i>Aquatic Toxicology</i> , <b>2014</b> , 156, 248-58	5.1	77
52	Toxicity of differently sized and coated silver nanoparticles to the bacterium <i>Pseudomonas putida</i> : risks for the aquatic environment?. <i>Ecotoxicology</i> , <b>2014</b> , 23, 818-29	2.9	41
51	Triclosan causes toxic effects to algae in marine biofilms, but does not inhibit the metabolic activity of marine biofilm bacteria. <i>Marine Pollution Bulletin</i> , <b>2014</b> , 84, 208-12	6.7	14
50	A novel bioassay for evaluating the efficacy of biocides to inhibit settling and early establishment of marine biofilms. <i>Marine Pollution Bulletin</i> , <b>2014</b> , 87, 292-299	6.7	22
49	The predictability of mixture toxicity of demethylase inhibiting fungicides to <i>Daphnia magna</i> depends on life-cycle parameters. <i>Aquatic Toxicology</i> , <b>2014</b> , 152, 205-14	5.1	22
48	Effects of five antifouling biocides on settlement and growth of zoospores from the marine macroalga <i>Ulva lactuca</i> L. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2013</b> , 91, 426-32	2.7	15
47	Proposal for environmental mixture risk assessment in the context of the biocidal product authorization in the EU. <i>Environmental Sciences Europe</i> , <b>2013</b> , 25,	5	19
46	Simplifying complexity: Mixture toxicity assessment in the last 20 years. <i>Environmental Toxicology and Chemistry</i> , <b>2013</b> , 32, 1685-7	3.8	91
45	Extreme irgarol tolerance in an <i>Ulva lactuca</i> L. population on the Swedish west coast. <i>Marine Pollution Bulletin</i> , <b>2013</b> , 76, 360-4	6.7	2
44	Perspectives for integrating human and environmental risk assessment and synergies with socio-economic analysis. <i>Science of the Total Environment</i> , <b>2013</b> , 456-457, 307-16	10.2	32
43	Human Health Risk Assessment (HHRA) for environmental development and transfer of antibiotic resistance. <i>Environmental Health Perspectives</i> , <b>2013</b> , 121, 993-1001	8.4	390
42	Predictive environmental risk assessment of chemical mixtures: a conceptual framework. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 2564-73	10.3	450
41	Single-substance and mixture toxicity of five pharmaceuticals and personal care products to marine periphyton communities. <i>Environmental Toxicology and Chemistry</i> , <b>2011</b> , 30, 2030-40	3.8	57
40	The challenges posed by radiation and radionuclide releases to the environment. <i>Integrated Environmental Assessment and Management</i> , <b>2011</b> , 7, 360-1	2.5	
39	Joint effects of heterogeneous estrogenic chemicals in the E-screen--exploring the applicability of concentration addition. <i>Toxicological Sciences</i> , <b>2011</b> , 122, 383-94	4.4	28
38	Toxicity of five protein synthesis inhibiting antibiotics and their mixture to limnic bacterial communities. <i>Aquatic Toxicology</i> , <b>2010</b> , 99, 457-65	5.1	24

37	The scientific assessment of combined effects of risk factors: different approaches in experimental biosciences and epidemiology. <i>European Journal of Epidemiology</i> , <b>2010</b> , 25, 539-46	12.1	12
36	Mixture toxicity from photosystem II inhibitors on microalgal community succession is predictable by concentration addition. <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 2806-13	3.8	15
35	Test Design, Mixture Characterization, and Data Evaluation <b>2010</b> , 121-155		3
34	Toxic masking and synergistic modulation of the estrogenic activity of chemical mixtures in a yeast estrogen screen (YES). <i>Environmental Science and Pollution Research</i> , <b>2009</b> , 16, 593-603	5.1	31
33	Chronic toxicity of five structurally diverse demethylase-inhibiting fungicides to the crustacean <i>Daphnia magna</i> : a comparative assessment. <i>Environmental Toxicology and Chemistry</i> , <b>2009</b> , 28, 1218-26	3.8	47
32	Toxicity of the pharmaceutical clotrimazole to marine microalgal communities. <i>Aquatic Toxicology</i> , <b>2009</b> , 91, 203-11	5.1	61
31	Low-level exposure to multiple chemicals: reason for human health concerns?. <i>Environmental Health Perspectives</i> , <b>2007</b> , 115 Suppl 1, 106-14	8.4	154
30	The SWIFT periphyton test for high-capacity assessments of toxicant effects on microalgal community development. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2007</b> , 349, 299-312	2.1	30
29	Heavy metal toxicity to <i>Lemna minor</i> : studies on the time dependence of growth inhibition and the recovery after exposure. <i>Chemosphere</i> , <b>2007</b> , 67, 36-43	8.4	110
28	Effects of three antifouling agents on algal communities and algal reproduction: mixture toxicity studies with TBT, Irgarol, and Sea-Nine. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2006</b> , 50, 335-45	3.2	47
27	Application and validation of approaches for the predictive hazard assessment of realistic pesticide mixtures. <i>Aquatic Toxicology</i> , <b>2006</b> , 76, 93-110	5.1	190
26	Accurate prediction of the response of freshwater fish to a mixture of estrogenic chemicals. <i>Environmental Health Perspectives</i> , <b>2005</b> , 113, 721-8	8.4	299
25	Innovative Risikobewertungsverfahren als Instrumente nachhaltiger Chemikalienpolitik <b>2005</b> , 299-345		1
24	Joint algal toxicity of phenylurea herbicides is equally predictable by concentration addition and independent action. <i>Environmental Toxicology and Chemistry</i> , <b>2004</b> , 23, 258-64	3.8	139
23	Toxicity of a mixture of dissimilarly acting substances to natural algal communities: predictive power and limitations of independent action and concentration addition. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 6363-70	10.3	150
22	Predictability of the mixture toxicity of 12 similarly acting congeneric inhibitors of photosystem II in marine periphyton and epipsammon communities. <i>Aquatic Toxicology</i> , <b>2004</b> , 68, 351-351	5.1	
21	Predictability of the mixture toxicity of 12 similarly acting congeneric inhibitors of photosystem II in marine periphyton and epipsammon communities. <i>Aquatic Toxicology</i> , <b>2004</b> , 68, 351-67	5.1	91
20	Toxicity of sulfonylurea herbicides to the green alga <i>Scenedesmus vacuolatus</i> : predictability of combination effects. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2003</b> , 71, 585-93	2.7	23

19	Predictability of combined effects of eight chloroacetanilide herbicides on algal reproduction. <i>Pest Management Science</i> , <b>2003</b> , 59, 1101-10	4.6	96
18	The BEAM-project: prediction and assessment of mixture toxicities in the aquatic environment. <i>Continental Shelf Research</i> , <b>2003</b> , 23, 1757-1769	2.4	100
17	Water quality objectives for mixtures of toxic chemicals: problems and perspectives. <i>Ecotoxicology and Environmental Safety</i> , <b>2003</b> , 54, 139-50	7	66
16	Joint algal toxicity of 16 dissimilarly acting chemicals is predictable by the concept of independent action. <i>Aquatic Toxicology</i> , <b>2003</b> , 63, 43-63	5.1	348
15	A general best-fit method for concentration-response curves and the estimation of low-effect concentrations. <i>Environmental Toxicology and Chemistry</i> , <b>2001</b> , 20, 448-457	3.8	217
14	Predicting the joint algal toxicity of multi-component s-triazine mixtures at low-effect concentrations of individual toxicants. <i>Aquatic Toxicology</i> , <b>2001</b> , 56, 13-32	5.1	323
13	. <i>Environmental Toxicology and Chemistry</i> , <b>2001</b> , 20, 448	3.8	106
12	Predictability of the toxicity of multiple chemical mixtures to <i>Vibrio fischeri</i> : Mixtures composed of similarly acting chemicals. <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 2341-2347	3.8	317
11	Predictability of the toxicity of a multiple mixture of dissimilarly acting chemicals to <i>Vibrio fischeri</i> . <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 2348-2356	3.8	295
10	Kombinationswirkungen von Umweltchemikalien in der Ökotoxikologie. <i>Environmental Sciences Europe</i> , <b>2000</b> , 12, 226-234		5
9	Predictive Assessment of the Aquatic Toxicity of Multiple Chemical Mixtures. <i>Journal of Environmental Quality</i> , <b>2000</b> , 29, 1063-1068	3.4	104
8	The single substance and mixture toxicity of quinolones to the bioluminescent bacterium <i>Vibrio fischeri</i> . <i>Aquatic Toxicology</i> , <b>2000</b> , 49, 49-61	5.1	223
7	Bioassays with <i>Vibrio fischeri</i> for the assessment of delayed toxicity. <i>Chemosphere</i> , <b>2000</b> , 40, 821-8	8.4	88
6	. <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 2341	3.8	163
5	. <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 2348	3.8	154
4	The toxicity of antibiotic agents to the luminescent bacterium <i>Vibrio fischeri</i> . <i>Chemosphere</i> , <b>1999</b> , 38, 3291-301	8.4	120
3	Xenobiotic biotransformation in unicellular green algae. Involvement of cytochrome P450 in the activation and selectivity of the pyridazinone pro-herbicide metflurazon. <i>Plant Physiology</i> , <b>1996</b> , 112, 361-70	6.6	91
2	Microplastics in the environment: Much ado about nothing? A debate		4

- 1 Triclosan changes community composition and selects for specific bacterial taxa in marine periphyton biofilms in low nanomolar concentration