

Thomas Backhaus

List of Publications by Citations

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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	Predictive environmental risk assessment of chemical mixtures: a conceptual framework. <i>Environmental Science & Technology</i> , 2012 , 46, 2564-73	10.3	450
89	Human Health Risk Assessment (HHRA) for environmental development and transfer of antibiotic resistance. <i>Environmental Health Perspectives</i> , 2013 , 121, 993-1001	8.4	390
88	Joint algal toxicity of 16 dissimilarly acting chemicals is predictable by the concept of independent action. <i>Aquatic Toxicology</i> , 2003 , 63, 43-63	5.1	348
87	Predicting the joint algal toxicity of multi-component s-triazine mixtures at low-effect concentrations of individual toxicants. <i>Aquatic Toxicology</i> , 2001 , 56, 13-32	5.1	323
86	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> , 2000 , 19, 2341-2347	3.8	317
85	Accurate prediction of the response of freshwater fish to a mixture of estrogenic chemicals. <i>Environmental Health Perspectives</i> , 2005 , 113, 721-8	8.4	299
84	Predictability of the toxicity of a multiple mixture of dissimilarly acting chemicals to <i>Vibrio fischeri</i> . <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2348-2356	3.8	295
83	The single substance and mixture toxicity of quinolones to the bioluminescent bacterium <i>Vibrio fischeri</i> . <i>Aquatic Toxicology</i> , 2000 , 49, 49-61	5.1	223
82	A general best-fit method for concentration-response curves and the estimation of low-effect concentrations. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 448-457	3.8	217
81	Future water quality monitoring--adapting tools to deal with mixtures of pollutants in water resource management. <i>Science of the Total Environment</i> , 2015 , 512-513, 540-551	10.2	198
80	Application and validation of approaches for the predictive hazard assessment of realistic pesticide mixtures. <i>Aquatic Toxicology</i> , 2006 , 76, 93-110	5.1	190
79	. <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2341	3.8	163
78	Low-level exposure to multiple chemicals: reason for human health concerns?. <i>Environmental Health Perspectives</i> , 2007 , 115 Suppl 1, 106-14	8.4	154
77	. <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2348	3.8	154
76	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 & Technology</i> , 2004 , 38, 6363-70	10.3	150
75	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> , 2015 , 503-504, 22-31	10.2	149
74	Ecotoxicological assessment of antibiotics: A call for improved consideration of microorganisms. <i>Environment International</i> , 2015 , 85, 189-205	12.9	145

73	Joint algal toxicity of phenylurea herbicides is equally predictable by concentration addition and independent action. <i>Environmental Toxicology and Chemistry</i> , 2004 , 23, 258-64	3.8	139
72	The toxicity of antibiotic agents to the luminescent bacterium <i>Vibrio fischeri</i> . <i>Chemosphere</i> , 1999 , 38, 3291-301	8.4	120
71	Heavy metal toxicity to <i>Lemna minor</i> : studies on the time dependence of growth inhibition and the recovery after exposure. <i>Chemosphere</i> , 2007 , 67, 36-43	8.4	110
70	. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 448	3.8	106
69	Predictive Assessment of the Aquatic Toxicity of Multiple Chemical Mixtures. <i>Journal of Environmental Quality</i> , 2000 , 29, 1063-1068	3.4	104
68	Screening level mixture risk assessment of pharmaceuticals in STP effluents. <i>Water Research</i> , 2014 , 49, 157-65	12.5	101
67	The BEAM-project: prediction and assessment of mixture toxicities in the aquatic environment. <i>Continental Shelf Research</i> , 2003 , 23, 1757-1769	2.4	100
66	Future water quality monitoring: improving the balance between exposure and toxicity assessments of real-world pollutant mixtures. <i>Environmental Sciences Europe</i> , 2019 , 31,	5	96
65	Predictability of combined effects of eight chloroacetanilide herbicides on algal reproduction. <i>Pest Management Science</i> , 2003 , 59, 1101-10	4.6	96
64	Exploring the planetary boundary for chemical pollution. <i>Environment International</i> , 2015 , 78, 8-15	12.9	93
63	Simplifying complexity: Mixture toxicity assessment in the last 20 years. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 1685-7	3.8	91
62	Predictability of the mixture toxicity of 12 similarly acting congeneric inhibitors of photosystem II in marine periphyton and epipsammon communities. <i>Aquatic Toxicology</i> , 2004 , 68, 351-67	5.1	91
61	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> , 1996 , 112, 361-70	6.6	91
60	Medicines, shaken and stirred: a critical review on the ecotoxicology of pharmaceutical mixtures. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369,	5.8	89
59	Bioassays with <i>Vibrio fischeri</i> for the assessment of delayed toxicity. <i>Chemosphere</i> , 2000 , 40, 821-8	8.4	88
58	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> , 2019 , 31,	5	82
57	Toxicity of ciprofloxacin and sulfamethoxazole to marine periphytic algae and bacteria. <i>Aquatic Toxicology</i> , 2014 , 156, 248-58	5.1	77
56	Toward sustainable environmental quality: Priority research questions for Europe. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2281-2295	3.8	68

55	Scientific Challenges in the Risk Assessment of Food Contact Materials. <i>Environmental Health Perspectives</i> , 2017 , 125, 095001	8.4	66
54	Water quality objectives for mixtures of toxic chemicals: problems and perspectives. <i>Ecotoxicology and Environmental Safety</i> , 2003 , 54, 139-50	7	66
53	Toxicity of the pharmaceutical clotrimazole to marine microalgal communities. <i>Aquatic Toxicology</i> , 2009 , 91, 203-11	5.1	61
52	Single-substance and mixture toxicity of five pharmaceuticals and personal care products to marine periphyton communities. <i>Environmental Toxicology and Chemistry</i> , 2011 , 30, 2030-40	3.8	57
51	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> , 2017 , 598, 973-983	10.2	51
50	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> , 2009 , 28, 1218-26	3.8	47
49	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> , 2006 , 50, 335-45	3.2	47
48	Toxicity of differently sized and coated silver nanoparticles to the bacterium <i>Pseudomonas putida</i> : risks for the aquatic environment?. <i>Ecotoxicology</i> , 2014 , 23, 818-29	2.9	41
47	Toward harmonizing ecotoxicity characterization in life cycle impact assessment. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2955-2971	3.8	38
46	Environmental Risk Assessment of Pharmaceutical Mixtures: Demands, Gaps, and Possible Bridges. <i>AAPS Journal</i> , 2016 , 18, 804-13	3.7	33
45	Perspectives for integrating human and environmental risk assessment and synergies with socio-economic analysis. <i>Science of the Total Environment</i> , 2013 , 456-457, 307-16	10.2	32
44	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> , 2009 , 16, 593-603	5.1	31
43	The SWIFT periphyton test for high-capacity assessments of toxicant effects on microalgal community development. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007 , 349, 299-312	2.1	30
42	Joint effects of heterogeneous estrogenic chemicals in the E-screen--exploring the applicability of concentration addition. <i>Toxicological Sciences</i> , 2011 , 122, 383-94	4.4	28
41	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> , 2019 , 31,	5	27
40	Improved component-based methods for mixture risk assessment are key to characterize complex chemical pollution in surface waters. <i>Environmental Sciences Europe</i> , 2019 , 31,	5	26
39	The toxicity of the three antifouling biocides DCOIT, TPBP and medetomidine to the marine pelagic copepod <i>Acartia tonsa</i> . <i>Ecotoxicology</i> , 2016 , 25, 871-9	2.9	25
38	Toxicity of five protein synthesis inhibiting antibiotics and their mixture to limnic bacterial communities. <i>Aquatic Toxicology</i> , 2010 , 99, 457-65	5.1	24

37	Toxicity of sulfonyleurea herbicides to the green alga <i>Scenedesmus vacuolatus</i> : predictability of combination effects. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2003 , 71, 585-93	2.7	23
36	A novel bioassay for evaluating the efficacy of biocides to inhibit settling and early establishment of marine biofilms. <i>Marine Pollution Bulletin</i> , 2014 , 87, 292-299	6.7	22
35	The predictability of mixture toxicity of demethylase inhibiting fungicides to <i>Daphnia magna</i> depends on life-cycle parameters. <i>Aquatic Toxicology</i> , 2014 , 152, 205-14	5.1	22
34	Microplastics in the Environment: Much Ado about Nothing? A Debate. <i>Global Challenges</i> , 2020 , 4, 1900023	4.3	22
33	Copper Affects Composition and Functioning of Microbial Communities in Marine Biofilms at Environmentally Relevant Concentrations. <i>Frontiers in Microbiology</i> , 2018 , 9, 3248	5.7	20
32	Proposal for environmental mixture risk assessment in the context of the biocidal product authorization in the EU. <i>Environmental Sciences Europe</i> , 2013 , 25,	5	19
31	Evaluating the environmental hazard of industrial chemicals from data collected during the REACH registration process. <i>Science of the Total Environment</i> , 2017 , 586, 658-665	10.2	18
30	Long-term effects of the antibacterial agent triclosan on marine periphyton communities. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 2067-77	3.8	18
29	A quick and robust method for quantification of the hypersensitive response in plants. <i>PeerJ</i> , 2015 , 3, e1469	3.1	18
28	Antimicrobial activity of pharmaceutical cocktails in sewage treatment plant effluent - An experimental and predictive approach to mixture risk assessment. <i>Environmental Pollution</i> , 2017 , 231, 1507-1517	9.3	17
27	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> , 2017 , 122, 409-419	6.7	16
26	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> , 2013 , 91, 426-32	2.7	15
25	Mixture toxicity from photosystem II inhibitors on microalgal community succession is predictable by concentration addition. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 2806-13	3.8	15
24	Exploring the solution space: key: SOLUTIONS recommends an early-stage assessment of options to protect and restore water quality against chemical pollution. <i>Environmental Sciences Europe</i> , 2019 , 31,	5	15
23	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> , 2014 , 84, 208-12	6.7	14
22	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> , 2019 , 31,	5	13
21	The scientific assessment of combined effects of risk factors: different approaches in experimental biosciences and epidemiology. <i>European Journal of Epidemiology</i> , 2010 , 25, 539-46	12.1	12
20	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> , 2016 , 23, 4218-34	5.1	11

19	Toward a conceptual approach for assessing risks from chemical mixtures and other stressors to coastal ecosystem services. <i>Integrated Environmental Assessment and Management</i> , 2017 , 13, 376-386	2.5	11
18	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> , 2019 , 31,	5	11
17	Risk Assessment of Pesticide Mixtures in Australian Rivers Discharging to the Great Barrier Reef. <i>Environmental Science & Technology</i> , 2020 , 54, 14361-14371	10.3	7
16	Tolerance Patterns in Stream Biofilms Link Complex Chemical Pollution to Ecological Impacts. <i>Environmental Science & Technology</i> , 2020 , 54, 10745-10753	10.3	7
15	Kombinationswirkungen von Umweltchemikalien in der Ökotoxikologie. <i>Environmental Sciences Europe</i> , 2000 , 12, 226-234		5
14	Strengthen the European collaborative environmental research to meet European policy goals for achieving a sustainable, non-toxic environment. <i>Environmental Sciences Europe</i> , 2019 , 31,	5	5
13	Microplastics in the environment: Much ado about nothing? A debate		4
12	Test Design, Mixture Characterization, and Data Evaluation 2010 , 121-155		3
11	Making Out That Science Is Political Is Actually Unavoidable (Author's Reply). <i>Integrated Environmental Assessment and Management</i> , 2019 , 15, 676	2.5	2
10	Extreme irgarol tolerance in an <i>Ulva lactuca</i> L. population on the Swedish west coast. <i>Marine Pollution Bulletin</i> , 2013 , 76, 360-4	6.7	2
9	In Response: Prioritization and standard setting for pollutant mixtures in the aquatic environment: A business consultant's perspective. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 2185-7	3.8	2
8	Triclosan changes community composition and selects for specific bacterial taxa in marine periphyton biofilms in low nanomolar concentration		2
7	Three methods for integration of environmental risk into the benefit-risk assessment of veterinary medicinal products. <i>Science of the Total Environment</i> , 2017 , 605-606, 692-701	10.2	1
6	Innovative Risikobewertungsverfahren als Instrumente nachhaltiger Chemikalienpolitik 2005 , 299-345		1
5	Single substance and mixture toxicity of dibutyl-phthalate and sodium dodecyl sulphate to marine zooplankton.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 234, 113406	7	1
4	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> , 2022 , 804, 150020	10.2	0
3	Indeed, Science Is Inherently Political But Must Not Become Partisan. <i>Integrated Environmental Assessment and Management</i> , 2020 , 16, 9	2.5	
2	The challenges posed by radiation and radionuclide releases to the environment. <i>Integrated Environmental Assessment and Management</i> , 2011 , 7, 360-1	2.5	

- 1 Predictability of the mixture toxicity of 12 similarly acting congeneric inhibitors of photosystem II in marine periphyton and epipsammon communities. *Aquatic Toxicology*, **2004**, 68, 351-351 5.1