KarelÂ AÂ C De Schamphelaere

List of Publications by Year
in descending order

206 papers	8,562 citations	44444 50 h-index	71088 80 g-index
211 all docs	211 docs citations	211 times ranked	7867 citing authors

#	Article	IF	Citations
1	Predicting Combined Effects of Chemical Stressors: Populationâ€Level Effects of Organic Chemical Mixtures with a Dynamic Energy Budget Individualâ€Based Model. Environmental Toxicology and Chemistry, 2022, 41, 2240-2258.	2.2	5
2	A margin of safety approach for the assessment of environmentally realistic chemical mixtures in the marine environment based on combined passive sampling and ecotoxicity testing. Science of the Total Environment, 2021, 765, 142748.	3.9	5
3	Interplay between dietary lipids and cadmium exposure in rainbow trout liver: Influence on fatty acid metabolism, metal accumulation and stress response. Aquatic Toxicology, 2021, 231, 105676.	1.9	14
4	Development and Validation of a Mixture Toxicity Implementation in the Dynamic Energy Budgetâ€“Individualâ€Based Model: Effects of Copper and Zinc on Daphnia magna Populations. Environmental Toxicology and Chemistry, 2021, 40, 513-527.	2.2	18
5	Metabarcoding reveals hidden species and improves identification of marine zooplankton communities in the North Sea. ICES Journal of Marine Science, 2021, 78, 3411-3427.	1.2	12
6	Neonicotinoid Insecticides from a Marine Perspective: Acute and Chronic Copepod Testing and Derivation of Environmental Quality Standards. Environmental Toxicology and Chemistry, 2021, 40, 1353-1367.	2.2	5
7	Prioritization of contaminants and biological process targets in the North Sea using toxicity data from ToxCast. Science of the Total Environment, 2021, 758, 144157.	3.9	8
8	Phycotoxin-Enriched Sea Spray Aerosols: Methods, Mechanisms, and Human Exposure. Environmental Science & Technology, 2021, 55, 6184-6196.	4.6	11
9	Correlated Ni, Cu, and Zn Sensitivities of 8 Freshwater Algal Species and Consequences for Lowâ€Level Metal Mixture Effects. Environmental Toxicology and Chemistry, 2021, 40, 2013-2023.	2.2	10
10	Setting a Protective Threshold Value for Silver Toward Freshwater Organisms. Environmental Toxicology and Chemistry, 2021, 40, 1678-1693.	2.2	3
11	Making Sense of Lifeâ€History Effects of the Antidepressant Citalopram in the Copepod Nitocra spinipes Using a Bioenergetics Model. Environmental Toxicology and Chemistry, 2021, 40, 1926-1937.	2.2	2
12	Integrating Bioavailability of Metals in Fish Population Models. Environmental Toxicology and Chemistry, 2021, 40, 2764-2780.	2.2	2
13	Interactive Metal Mixture Toxicity to Daphnia magna Populations as an Emergent Property in a Dynamic Energy Budget Individualâ€Based Model. Environmental Toxicology and Chemistry, 2021, 40, 3034-3048.	2.2	12
14	Sea Spray Aerosols Contain the Major Component of Human Lung Surfactant. Environmental Science & Technology, 2021, 55, 15989-16000.	4.6	4
15	Acute and Chronic Toxicity of Cobalt to Freshwater Organisms: Using a Species Sensitivity Distribution Approach to Establish International Water Quality Standards. Environmental Toxicology and Chemistry, 2020, 39, 799-811.	2.2	24
16	Metal Bioavailability Models: Current Status, Lessons Learned, Considerations for Regulatory Use, and the Path Forward. Environmental Toxicology and Chemistry, 2020, 39, 60-84.	2.2	67
17	Evaluating the potential of direct RNA nanopore sequencing: Metatranscriptomics highlights possible seasonal differences in a marine pelagic crustacean zooplankton community. Marine Environmental Research, 2020, 153, 104836.	1.1	23
18	Spatio-temporal patterns in the gene expression of the calanoid copepod Temora longicornis in the Belgian part of the North Sea. Marine Environmental Research, 2020, 160, 105037.	1.1	8

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19	A Generalized Bioavailability Model (gBAM) for Predicting Chronic Copper Toxicity to Freshwater Fish. Environmental Toxicology and Chemistry, 2020, 39, 2424-2436.	2.2	6
20	Estimating inter-individual variability of dynamic energy budget model parameters for the copepod Nitocra spinipes from existing life-history data. Ecological Modelling, 2020, 431, 109091.	1.2	6
21	Aerosolizable Marine Phycotoxins and Human Health Effects: In Vitro Support for the Biogenics Hypothesis. Marine Drugs, 2020, 18, 46.	2.2	14
22	Three-dimensional X-ray fluorescence imaging modes for biological specimens using a full-field energy dispersive CCD camera. Journal of Analytical Atomic Spectrometry, 2019, 34, 2083-2093.	1.6	29
23	Assessing the Freshwater Quality of a Large-Scale Mining Watershed: The Need for Integrated Approaches. Water (Switzerland), 2019, 11, 1797.	1.2	11
24	Marine biogenics in sea spray aerosols interact with the mTOR signaling pathway. Scientific Reports, 2019, 9, 675.	1.6	12
25	The Effects of Nickel on the Structure and Functioning of a Freshwater Plankton Community Under High Dissolved Organic Carbon Conditions: A Microcosm Experiment. Environmental Toxicology and Chemistry, 2019, 38, 1923-1939.	2.2	8
26	The Unexpected Absence of Nickel Effects on a Daphnia Population at 3 Temperatures is Correctly Predicted by a Dynamic Energy Budget Individualâ€Based Model. Environmental Toxicology and Chemistry, 2019, 38, 1423-1433.	2.2	9
27	Growth Stimulation Effects of Environmentally Realistic Contaminant Mixtures on a Marine Diatom. Environmental Toxicology and Chemistry, 2019, 38, 1313-1322.	2.2	4
28	Genome-Wide Stress Responses to Copper and Arsenic in a Field Population of Daphnia. Environmental Science & Technology, 2019, 53, 3850-3859.	4.6	11
29	The Use of Mechanistic Population Models in Metal Risk Assessment: Combined Effects of Copper and Food Source on Lymnaea stagnalis Populations. Environmental Toxicology and Chemistry, 2019, 38, 1104-1119.	2.2	11
30	The transcriptome of the marine calanoid copepod Temora longicornis under heat stress and recovery. Marine Environmental Research, 2019, 143, 10-23.	1.1	29
31	Seasonal and spatial fatty acid profiling of the calanoid copepods Temora longicornis and Acartia clausi linked to environmental stressors in the North Sea. Marine Environmental Research, 2019, 144, 92-101.	1.1	16
32	Effect of temperature on nickel uptake and elimination in Daphnia magna. Environmental Toxicology and Chemistry, 2019, 38, 784-793.	2.2	7
33	Two dynamic energy budget models for the harpacticoid copepod Nitocra spinipes. Journal of Sea Research, 2019, 143, 70-77.	0.6	9
34	Combined effects of interspecies interaction, temperature, and zinc on Daphnia longispina population dynamics. Environmental Toxicology and Chemistry, 2018, 37, 1668-1678.	2.2	6
35	Transgenerational DNA Methylation Changes in Daphnia magna Exposed to Chronic Î³ Irradiation. Environmental Science & Technology, 2018, 52, 4331-4339.	4.6	55
36	Multimodel inference to quantify the relative importance of abiotic factors in the population dynamics of marine zooplankton. Journal of Marine Systems, 2018, 181, 91-98.	0.9	15

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37	Deciphering the Combined Effects of Environmental Stressors on Gene Transcription: A Conceptual Approach. Environmental Science & Technology, 2018, 52, 5479-5489.	4.6	20
38	Multigenerational effects of nickel on Daphnia magna depend on temperature and the magnitude of the effect in the first generation. Environmental Toxicology and Chemistry, 2018, 37, 1877-1888.	2.2	5
39	Body lipid composition modulates acute cadmium toxicity in Daphnia magna adults and juveniles. Chemosphere, 2018, 205, 328-338.	4.2	8
40	Environmental Toxicity Assessment of Complex Inorganic Materials. , 2018, , 97-125.		1
41	Early transcriptional response pathways in Daphnia magna are coordinated in networks of crustaceanâ€specific genes. Molecular Ecology, 2018, 27, 886-897.	2.0	38
42	Mixtures of Cu, Ni, and Zn act mostly noninteractively on Pseudokirchneriella subcapitata growth in natural waters. Environmental Toxicology and Chemistry, 2018, 37, 587-598.	2.2	9
43	Aquatic exposures of chemical mixtures in urban environments: Approaches to impact assessment. Environmental Toxicology and Chemistry, 2018, 37, 703-714.	2.2	16
44	Gene Coexpression Networks Drive and Predict Reproductive Effects in Daphnia in Response to Environmental Disturbances. Environmental Science & Technology, 2018, 52, 317-326.	4.6	11
45	A framework for ecological risk assessment of metal mixtures in aquatic systems. Environmental Toxicology and Chemistry, 2018, 37, 623-642.	2.2	58
46	Exploring the interactions between polyunsaturated fatty acids and cadmium in rainbow trout liver cells: a genetic and proteomic study. Aquatic Toxicology, 2018, 205, 100-113.	1.9	11
47	Zinc toxicity to Daphnia magna in a twoâ€species microcosm can be predicted from singleâ€species test data: The effects of phosphorus supply and pH. Environmental Toxicology and Chemistry, 2018, 37, 2153-2164.	2.2	4
48	Ecotoxicological and biochemical mixture effects of an herbicide and a metal at the marine primary producer diatom Thalassiosira weissflogii and the primary consumer copepod Acartia tonsa. Environmental Science and Pollution Research, 2018, 25, 22180-22195.	2.7	17
49	The combined and interactive effects of zinc, temperature, and phosphorus on the structure and functioning of a freshwater community. Environmental Toxicology and Chemistry, 2018, 37, 2413-2427.	2.2	11
50	Transgenerational Inheritance of DNA Hypomethylation in Daphnia magna in Response to Salinity Stress. Environmental Science & Technology, 2018, 52, 10114-10123.	4.6	67
51	The effects of a mixture of copper, nickel, and zinc on the structure and function of a freshwater planktonic community. Environmental Toxicology and Chemistry, 2018, 37, 2380-2400.	2.2	10
52	Effect of Î²-adrenergic receptor agents on cardiac structure and function and whole-body gene expression in Daphnia magna. Environmental Pollution, 2018, 241, 869-878.	3.7	14
53	Validation of the nickel biotic ligand model for locally relevant species in Australian freshwaters. Environmental Toxicology and Chemistry, 2018, 37, 2566-2574.	2.2	33
54	Distribution of the invasive calanoid copepod Pseudodiaptomus marinus (Sato, 1913) in the Belgian part of the North Sea. BioInvasions Records, 2018, 7, 33-41.	0.4	18

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55	Comparison of four methods for bioavailabilityâ€based risk assessment of mixtures of Cu, Zn, and Ni in freshwater. Environmental Toxicology and Chemistry, 2017, 36, 2123-2138.	2.2	21
56	Salinity, dissolved organic carbon, and interpopulation variability hardly influence the accumulation and effect of copper in Mytilus edulis. Environmental Toxicology and Chemistry, 2017, 36, 2074-2082.	2.2	8
57	Three-Dimensional Reconstruction of the Tissue-Specific Multielemental Distribution within Ceriodaphnia dubia via Multimodal Registration Using Laser Ablation ICP-Mass Spectrometry and X-ray Spectroscopic Techniques. Analytical Chemistry, 2017, 89, 4161-4168.	3.2	35
58	The effect of <scp>pH</scp> on chronic zinc toxicity differs between daphnid species: Development of a preliminary chronic zinc Ceriodaphnia dubia bioavailability model. Environmental Toxicology and Chemistry, 2017, 36, 2750-2755.	2.2	8
59	Analyzing the capacity of the Daphnia magna and Pseudokirchneriella subcapitata bioavailability models to predict chronic zinc toxicity at high pH and low calcium concentrations and formulation of a generalized bioavailability model for D. magna. Environmental Toxicology and Chemistry, 2017, 36, 2781-2798.	2.2	11
60	Validation of a two-generational reproduction test in Daphnia magna: An interlaboratory exercise. Science of the Total Environment, 2017, 579, 1073-1083.	3.9	29
61	Enzymatic, urease-mediated mineralization of gellan gum hydrogel with calcium carbonate, magnesium-enriched calcium carbonate and magnesium carbonate for bone regeneration applications. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3556-3566.	1.3	31
62	Systematic Evaluation of Chronic Metal-Mixture Toxicity to Three Species and Implications for Risk Assessment. Environmental Science & Technology, 2017, 51, 4615-4623.	4.6	64
63	Effect of temperature on chronic toxicity of copper, zinc, and nickel to Daphnia magna. Environmental Toxicology and Chemistry, 2017, 36, 1909-1916.	2.2	32
64	Bisulfite Sequencing with Daphnia Highlights a Role for Epigenetics in Regulating Stress Response to Microcystis through Preferential Differential Methylation of Serine and Threonine Amino Acids. Environmental Science & Technology, 2017, 51, 924-931.	4.6	57
65	Multigenerational Effects of the Antibiotic Tetracycline on Transcriptional Responses of Daphnia magna and Its Relationship to Higher Levels of Biological Organizations. Environmental Science & Technology, 2017, 51, 12898-12907.	4.6	34
66	Modeling acute toxicity of metal mixtures to wheat (Triticum aestivum L.) using the biotic ligand model-based toxic units method. Scientific Reports, 2017, 7, 9443.	1.6	10
67	Mixture toxicity in the marine environment: Model development and evidence for synergism at environmental concentrations. Environmental Toxicology and Chemistry, 2017, 36, 3471-3479.	2.2	12
68	Relative contribution of multiple stressors on copepod density and diversity dynamics in the Belgian part of the North Sea. Marine Pollution Bulletin, 2017, 125, 350-359.	2.3	21
69	Development and validation of a metal mixture bioavailability model (MMBM) to predict chronic toxicity of Ni-Zn-Pb mixtures to Ceriodaphnia dubia. Environmental Pollution, 2017, 220, 1271-1281.	3.7	20
70	Comparison of chronic mixture toxicity of nickelâ€zincâ€copper and nickelâ€zincâ€copperâ€cadmium mixtures between Ceriodaphnia dubia and Pseudokirchneriella subcapitata. Environmental Toxicology and Chemistry, 2017, 36, 1056-1066.	2.2	22
71	Reproductive toxicity of binary and ternary mixture combinations of nickel, zinc, and lead to Ceriodaphnia dubia is best predicted with the independent action model. Environmental Toxicology and Chemistry, 2016, 35, 1796-1805.	2.2	24
72	The effect of pH on chronic aquatic nickel toxicity is dependent on the pH itself: Extending the chronic nickel bioavailability models. Environmental Toxicology and Chemistry, 2016, 35, 1097-1106.	2.2	44

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73	Development and validation of a chronic Pb bioavailability model for the freshwater rotifer Brachionus calyciflorus. Environmental Toxicology and Chemistry, 2016, 35, 2977-2986.	2.2	3
74	The derivation of effects threshold concentrations of lead for European freshwater ecosystems. Environmental Toxicology and Chemistry, 2016, 35, 1310-1320.	2.2	29
75	The effects of zinc on the structure and functioning of a freshwater community: A microcosm experiment. Environmental Toxicology and Chemistry, 2016, 35, 2698-2712.	2.2	14
76	Gene Body Methylation Patterns inDaphniaAre Associated with Gene Family Size. Genome Biology and Evolution, 2016, 8, 1185-1196.	1.1	39
77	Evolutionary toxicology: Meta-analysis of evolutionary events in response to chemical stressors. Ecotoxicology, 2016, 25, 1858-1866.	1.1	25
78	Optimizing the design of a reproduction toxicity test with the pond snail Lymnaea stagnalis. Regulatory Toxicology and Pharmacology, 2016, 81, 47-56.	1.3	20
79	Toxic dinoflagellates and Vibrio spp. act independently in bivalve larvae. Fish and Shellfish Immunology, 2016, 57, 236-242.	1.6	11
80	Novel injectable, self-gelling hydrogelâ€“microparticle composites for bone regeneration consisting of gellan gum and calcium and magnesium carbonate microparticles. Biomedical Materials (Bristol), 2016, 11, 065011.	1.7	27
81	Non-lethal heat shock increases tolerance to metal exposure in brine shrimp. Environmental Research, 2016, 151, 663-670.	3.7	30
82	Daphnia magna transcriptome by RNA-Seq across 12 environmental stressors. Scientific Data, 2016, 3, 160030.	2.4	89
83	The fatty acid profile of rainbow trout liver cells modulates their tolerance to methylmercury and cadmium. Aquatic Toxicology, 2016, 177, 171-181.	1.9	25
84	Temperature and food concentration have limited influence on the mixture toxicity of copper and Microcystis aeruginosa to Daphnia magna. Environmental Toxicology and Chemistry, 2016, 35, 742-749.	2.2	6
85	Mixture toxicity and interactions of copper, nickel, cadmium, and zinc to barley at low effect levels: Something from nothing?. Environmental Toxicology and Chemistry, 2016, 35, 2483-2492.	2.2	31
86	The effect of binary mixtures of zinc, copper, cadmium, and nickel on the growth of the freshwater diatom Navicula pelliculosa and comparison with mixture toxicity model predictions. Environmental Toxicology and Chemistry, 2016, 35, 2765-2773.	2.2	33
87	A microcosm study to support aquatic risk assessment of nickel: Communityâ€level effects and comparison with bioavailabilityâ€normalized species sensitivity distributions. Environmental Toxicology and Chemistry, 2016, 35, 1172-1182.	2.2	25
88	Zinc toxicity to the alga Pseudokirchneriella subcapitata decreases under phosphate limiting growth conditions. Aquatic Toxicology, 2016, 173, 74-82.	1.9	27
89	Experimental evolution reveals high insecticide tolerance in Daphnia inhabiting farmland ponds. Evolutionary Applications, 2015, 8, 442-453.	1.5	27
90	Comparison of the capacity of two biotic ligand models to predict chronic copper toxicity to two Daphnia magna clones and formulation of a generalized bioavailability model. Environmental Toxicology and Chemistry, 2015, 34, 1597-1608.	2.2	9

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91	Mixture toxicity of nickel and zinc to Daphnia magna is noninteractive at low effect sizes but becomes synergistic at high effect sizes. Environmental Toxicology and Chemistry, 2015, 34, 1091-1102.	2.2	38
92	Development of Thermosensitive Hydrogels of Chitosan, Sodium and Magnesium Glycerophosphate for Bone Regeneration Applications. Journal of Functional Biomaterials, 2015, 6, 192-203.	1.8	19
93	Global cytosine methylation in Daphnia magna depends on genotype, environment, and their interaction. Environmental Toxicology and Chemistry, 2015, 34, 1056-1061.	2.2	53
94	Rapid Adaptation of a Daphnia magna Population to Metal Stress Is Associated with Heterozygote Excess. Environmental Science & Technology, 2015, 49, 9298-9307.	4.6	38
95	Salinity and dissolved organic carbon both affect copper toxicity in mussel larvae: Copper speciation or competition cannot explain everything. Environmental Toxicology and Chemistry, 2015, 34, 1330-1336.	2.2	30
96	Common European harmful algal blooms affect the viability and innate immune responses of Mytilus edulis larvae. Fish and Shellfish Immunology, 2015, 47, 175-181.	1.6	19
97	Conserved transcriptional responses to cyanobacterial stressors are mediated by alternate regulation of paralogous genes in Daphnia. Molecular Ecology, 2015, 24, 1844-1855.	2.0	17
98	Metal Mixture Modeling Evaluation project: 2. Comparison of four modeling approaches. Environmental Toxicology and Chemistry, 2015, 34, 741-753.	2.2	55
99	An approach to assess the regulatory relevance of microevolutionary effects in ecological risk assessment of chemicals: A case study with cadmium. Environmental Toxicology and Chemistry, 2014, 33, 453-457.	2.2	17
100	Development and validation of a biotic ligand model for predicting chronic toxicity of lead to Ceriodaphnia dubia. Environmental Toxicology and Chemistry, 2014, 33, 394-403.	2.2	32
101	Ecotoxicity of binary mixtures of Microcystis aeruginosa and insecticides to Daphnia pulex. Environmental Pollution, 2014, 188, 56-63.	3.7	10
102	Are interactive effects of harmful algal blooms and copper pollution a concern for water quality management?. Water Research, 2014, 60, 41-53.	5.3	30
103	A comparison of the sensitivities of Daphnia magna and Daphnia pulex to six different cyanobacteria. Harmful Algae, 2014, 39, 1-7.	2.2	20
104	Toxicity of lead (Pb) to freshwater green algae: Development and validation of a bioavailability model and inter-species sensitivity comparison. Aquatic Toxicology, 2014, 155, 348-359.	1.9	49
105	The effect of temperature on the sensitivity of Daphnia magna to cyanobacteria is genus dependent. Environmental Toxicology and Chemistry, 2014, 33, 2333-2343.	2.2	13
106	Mixture toxicity of copper and zinc to barley at low level effects can be described by the Biotic Ligand Model. Plant and Soil, 2014, 381, 131-142.	1.8	39
107	Genome-Wide Transcription Profiles Reveal Genotype-Dependent Responses of Biological Pathways and Gene-Families in Daphnia Exposed to Single and Mixed Stressors. Environmental Science & Technology, 2014, 48, 3513-3522.	4.6	51
108	The Combined Effect of Dissolved Organic Carbon and Salinity on the Bioaccumulation of Copper in Marine Mussel Larvae. Environmental Science & Technology, 2014, 48, 698-705.	4.6	21

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109	Hard X-ray nanoprobe investigations of the subtissue metal distributions within Daphnia magna. Analytical and Bioanalytical Chemistry, 2013, 405, 6061-6068.	1.9	18
110	An investigation of the inter-clonal variation of the interactive effects of cadmium and Microcystis aeruginosa on the reproductive performance of Daphnia magna. Aquatic Toxicology, 2013, 140-141, 425-431.	1.9	16
111	The initial tolerance to sub-lethal Cd exposure is the same among ten naÃ¯ve pond populations of Daphnia magna, but their micro-evolutionary potential to develop resistance is very different. Aquatic Toxicology, 2013, 144-145, 322-331.	1.9	20
112	Combined exposure to cyanobacteria and carbaryl results in antagonistic effects on the reproduction of daphnia pulex. Environmental Toxicology and Chemistry, 2013, 32, 2153-2158.	2.2	14
113	Ecotoxicity and uptake of polymer coated gold nanoparticles. Nanotoxicology, 2013, 7, 37-47.	1.6	51
114	Combined and interactive effects of global climate change and toxicants on populations and communities. Environmental Toxicology and Chemistry, 2013, 32, 49-61.	2.2	266
115	Transcription patterns of genes encoding four metallothionein homologs in Daphnia pulex exposed to copper and cadmium are time- and homolog-dependent. Aquatic Toxicology, 2013, 142-143, 422-430.	1.9	26
116	Interactive effects of a bacterial parasite and the insecticide carbaryl to life-history and physiology of two Daphnia magna clones differing in carbaryl sensitivity. Aquatic Toxicology, 2013, 130-131, 149-159.	1.9	29
117	Development of an electrostatic model predicting copper toxicity to plants. Journal of Experimental Botany, 2012, 63, 659-668.	2.4	29
118	The potential for adaptation in a natural Daphnia magna population: broad and narrow-sense heritability of net reproductive rate under Cd stress at two temperatures. Ecotoxicology, 2012, 21, 1899-1910.	1.1	15
119	Waterborne versus Dietary Zinc Accumulation and Toxicity in Daphnia magna: a Synchrotron Radiation Based X-ray Fluorescence Imaging Approach. Environmental Science & Technology, 2012, 46, 1178-1184.	4.6	30
120	The use of liposomes to differentiate between the effects of nickel accumulation and altered food quality in Daphnia magna exposed to dietary nickel. Aquatic Toxicology, 2012, 109, 80-89.	1.9	11
121	The effects of Zn-contaminated diets on Daphnia magna reproduction may be related to Zn-induced changes of the dietary P content rather than to the dietary Zn content itself. Aquatic Toxicology, 2012, 110-111, 9-16.	1.9	13
122	Functional characterization of four metallothionein genes in Daphnia pulex exposed to environmental stressors. Aquatic Toxicology, 2012, 110-111, 54-65.	1.9	35
123	Multi-linear regression analysis, preliminary biotic ligand modeling, and cross species comparison of the effects of water chemistry on chronic lead toxicity in invertebrates. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2012, 155, 423-431.	1.3	25
124	Identification of Pathways, Gene Networks, and Paralogous Gene Families in Daphnia pulex Responding to Exposure to the Toxic Cyanobacterium Microcystis aeruginosa. Environmental Science & Technology, 2012, 46, 8448-8457.	4.6	52
125	A comparison of the short-term toxicity of cadmium to indigenous and alien gammarid species. Ecotoxicology, 2012, 21, 1135-1144.	1.1	22
126	Liposomes as an alternative delivery system for investigating dietary metal toxicity to Daphnia magna. Aquatic Toxicology, 2011, 105, 661-668.	1.9	16

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127	Influence of alumina coating on characteristics and effects of SiO2 nanoparticles in algal growth inhibition assays at various pH and organic matter contents. Environment International, 2011, 37, 1118-1125.	4.8	54
128	Evaluation of an electrostatic toxicity model for predicting Ni2+ toxicity to barley root elongation in hydroponic cultures and in soils. New Phytologist, 2011, 192, 414-427.	3.5	23
129	Aggregation and ecotoxicity of CeO2 nanoparticles in synthetic and natural waters with variable pH, organic matter concentration and ionic strength. Environmental Pollution, 2011, 159, 970-976.	3.7	161
130	Will genetic adaptation of natural populations to chemical pollution result in lower or higher tolerance to future climate change?. Integrated Environmental Assessment and Management, 2011, 7, 141-143.	1.6	7
131	Regulatory consideration of bioavailability for metals: Simplification of input parameters for the chronic copper biotic ligand model. Integrated Environmental Assessment and Management, 2011, 7, 437-444.	1.6	29
132	Eco-, geno- and human toxicology of bio-active nanoparticles for biomedical applications. Toxicology, 2010, 269, 170-181.	2.0	43
133	The chronic toxicity of molybdate to freshwater organisms. I. Generating reliable effects data. Science of the Total Environment, 2010, 408, 5362-5371.	3.9	33
134	Cross-phylum extrapolation of the Daphnia magna chronic biotic ligand model for zinc to the snail Lymnaea stagnalis and the rotifer Brachionus calyciflorus. Science of the Total Environment, 2010, 408, 5414-5422.	3.9	26
135	Cross-species extrapolation of chronic nickel Biotic Ligand Models. Science of the Total Environment, 2010, 408, 6148-6157.	3.9	94
136	Effect of natural organic matter on cerium dioxide nanoparticles settling in model fresh water. Chemosphere, 2010, 81, 711-715.	4.2	154
137	Comparison of laser ablation-inductively coupled plasma-mass spectrometry and micro-X-ray fluorescence spectrometry for elemental imaging in Daphnia magna. Analytica Chimica Acta, 2010, 664, 19-26.	2.6	66
138	Dual detection X-ray fluorescence cryotomography and mapping on the model organism Daphnia magna. Powder Diffraction, 2010, 25, 169-174.	0.4	21
139	Ecological significance of hazardous concentrations in a planktonic food web. Ecotoxicology and Environmental Safety, 2010, 73, 247-253.	2.9	4
140	The micro-evolutionary potential of Daphnia magna population exposed to temperature and cadmium stress. Ecotoxicology and Environmental Safety, 2010, 73, 1114-1122.	2.9	25
141	Direct determination of Zn in individual Daphnia magna specimens by means of solid sampling high-resolution continuum source graphite furnace atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 2010, 25, 503.	1.6	26
142	Element-to-tissue correlation in biological samples determined by three-dimensional X-ray imaging methods. Journal of Analytical Atomic Spectrometry, 2010, 25, 544.	1.6	64
143	Effects of Mg2+ and H+ on the toxicity of Ni2+ to the unicellular green alga Pseudokirchneriella subcapitata: Model development and validation with surface waters. Science of the Total Environment, 2009, 407, 1901-1914.	3.9	72
144	Environmental risk assessment of zinc in European freshwaters: A critical appraisal. Science of the Total Environment, 2009, 407, 5373-5391.	3.9	91

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145	Calcium accumulation and regulation in Daphnia magna: Links with feeding, growth and reproduction. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 152, 53-57.	0.8	18
146	Comparing ecotoxicological effect concentrations of chemicals established in multi-species vs. single-species toxicity test systems. Ecotoxicology and Environmental Safety, 2009, 72, 310-315.	2.9	32
147	Non-simultaneous ecotoxicity testing of single chemicals and their mixture results in erroneous conclusions about the joint action of the mixture. Chemosphere, 2009, 76, 428-432.	4.2	42
148	A single bioavailability model can accurately predict Ni toxicity to green microalgae in soft and hard surface waters. Water Research, 2009, 43, 1935-1947.	5.3	33
149	The effects of dietary nickel exposure on growth and reproduction of Daphnia magna. Aquatic Toxicology, 2009, 94, 138-144.	1.9	40
150	Fate and Effects of CeO₂ Nanoparticles in Aquatic Ecotoxicity Tests. Environmental Science & Technology, 2009, 43, 4537-4546.	4.6	331
151	Development of a method for assessing the relative contribution of waterborne and dietary exposure to zinc bioaccumulation in Daphnia magna by using isotopically enriched tracers and ICPâ€“MS detection. Analytical and Bioanalytical Chemistry, 2008, 390, 555-569.	1.9	26
152	Three-dimensional elemental imaging by means of synchrotron radiation micro-XRF: developments and applications in environmental chemistry. Analytical and Bioanalytical Chemistry, 2008, 390, 267-271.	1.9	59
153	A novel method for predicting chronic nickel bioavailability and toxicity to <i>Daphnia magna</i> in artificial and natural waters. Environmental Toxicology and Chemistry, 2008, 27, 2097-2107.	2.2	83
154	Ecotoxicity of silica nanoparticles to the green alga <i>pseudokirchneriella subcapitata</i>: Importance of surface area. Environmental Toxicology and Chemistry, 2008, 27, 1948-1957.	2.2	212
155	Is ecosystem structure the target of concern in ecological effect assessments?. Water Research, 2008, 42, 2395-2402.	5.3	18
156	The acute toxicity of nickel to Daphnia magna: Predictive capacity of bioavailability models in artificial and natural waters. Ecotoxicology and Environmental Safety, 2008, 70, 67-78.	2.9	49
157	Reduction of growth and haemolymph Ca levels in the freshwater snail Lymnaea stagnalis chronically exposed to cobalt. Ecotoxicology and Environmental Safety, 2008, 71, 65-70.	2.9	35
158	Comparison of different toxic effect sub-models in ecosystem modelling used for ecological effect assessments and water quality standard setting. Ecotoxicology and Environmental Safety, 2008, 69, 13-23.	2.9	19
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