KarelÂ AÂ C De Schamphelaere

List of Publications by Year
in descending order

206 papers	8,562 citations	38742 50 h-index	62596 80 g-index
211 all docs	211 docs citations	211 times ranked	7157 citing authors

#	Article	IF	Citations
1	A Biotic Ligand Model Predicting Acute Copper Toxicity forDaphnia magna:Â The Effects of Calcium, Magnesium, Sodium, Potassium, and pH. Environmental Science & Technology, 2002, 36, 48-54.	10.0	422
2	Fate and Effects of CeO₂ Nanoparticles in Aquatic Ecotoxicity Tests. Environmental Science & Technology, 2009, 43, 4537-4546.	10.0	331
3	Combined and interactive effects of global climate change and toxicants on populations and communities. Environmental Toxicology and Chemistry, 2013, 32, 49-61.	4.3	266
4	Ecotoxicity of silica nanoparticles to the green alga <i>pseudokirchneriella subcapitata</i>: Importance of surface area. Environmental Toxicology and Chemistry, 2008, 27, 1948-1957.	4.3	212
5	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.	7.5	161
6	Effect of natural organic matter on cerium dioxide nanoparticles settling in model fresh water. Chemosphere, 2010, 81, 711-715.	8.2	154
7	Predicting acute zinc toxicity for <i>Daphnia magna</i> as a function of key water chemistry characteristics: Development and validation of a biotic ligand model. Environmental Toxicology and Chemistry, 2002, 21, 1309-1315.	4.3	152
8	Mechanisms of chronic waterborne Zn toxicity in Daphnia magna. Aquatic Toxicology, 2006, 77, 393-401.	4.0	151
9	The toxicity of metal mixtures to the estuarine mysid Neomysis integer (Crustacea: Mysidacea) under changing salinity. Aquatic Toxicology, 2003, 64, 307-315.	4.0	137
10	Reproductive toxicity of dietary zinc to Daphnia magna. Aquatic Toxicology, 2004, 70, 233-244.	4.0	136
11	DEVELOPMENT AND FIELD VALIDATION OF A BIOTIC LIGAND MODEL PREDICTING CHRONIC COPPER TOXICITY TO DAPHNIA MAGNA. Environmental Toxicology and Chemistry, 2004, 23, 1365.	4.3	134
12	EFFECT OF DISSOLVED ORGANIC MATTER SOURCE ON ACUTE COPPER TOXICITY TO DAPHNIA MAGNA. Environmental Toxicology and Chemistry, 2004, 23, 1248.	4.3	125
13	DEVELOPMENT AND FIELD VALIDATION OF A PREDICTIVE COPPER TOXICITY MODEL FOR THE GREEN ALGA PSEUDOKIRCHNERIELLA SUBCAPITATA. Environmental Toxicology and Chemistry, 2003, 22, 2454.	4.3	117
14	EFFECTS OF DISSOLVED ORGANIC CARBON CONCENTRATION AND SOURCE, pH, AND WATER HARDNESS ON CHRONIC TOXICITY OF COPPER TO DAPHNIA MAGNA. Environmental Toxicology and Chemistry, 2004, 23, 1115.	4.3	111
15	Bioavailability and Chronic Toxicity of Zinc to Juvenile Rainbow Trout (Oncorhynchus mykiss):Â Comparison with Other Fish Species and Development of a Biotic Ligand Model. Environmental Science & Technology, 2004, 38, 6201-6209.	10.0	107
16	Environmental risk assessment of metals: tools for incorporating bioavailability. Environment International, 2003, 28, 793-800.	10.0	106
17	Development of a biotic ligand model (BLM) predicting nickel toxicity to barley (Hordeum vulgare). Chemosphere, 2007, 66, 1346-1352.	8.2	98
18	BIOAVAILABILITY MODELS FOR PREDICTING ACUTE AND CHRONIC TOXICITY OF ZINC TO ALGAE, DAPHNIDS, AND FISH IN NATURAL SURFACE WATERS. Environmental Toxicology and Chemistry, 2005, 24, 1190.	4.3	94

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19	Cross-species extrapolation of chronic nickel Biotic Ligand Models. Science of the Total Environment, 2010, 408, 6148-6157.	8.0	94
20	Chronic toxicity of dietary copper to Daphnia magna. Aquatic Toxicology, 2007, 81, 409-418.	4.0	92
21	Environmental risk assessment of zinc in European freshwaters: A critical appraisal. Science of the Total Environment, 2009, 407, 5373-5391.	8.0	91
22	Daphnia magna transcriptome by RNA-Seq across 12 environmental stressors. Scientific Data, 2016, 3, 160030.	5.3	89
23	Toward a Biotic Ligand Model for Freshwater Green Algae:Â Surface-Bound and Internal Copper Are Better Predictors of Toxicity than Free Cu2+-Ion Activity When pH Is Varied. Environmental Science & Technology, 2005, 39, 2067-2072.	10.0	88
24	Chronic toxicity of copper to five benthic invertebrates in laboratory-formulated sediment: Sensitivity comparison and preliminary risk assessment. Science of the Total Environment, 2007, 387, 128-140.	8.0	85
25	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.	4.3	83
26	Comparison of the Effect of Different pH Buffering Techniques on the Toxicity of Copper and Zinc to Daphnia Magna and Pseudokirchneriella Subcapitata. Ecotoxicology, 2004, 13, 697-705.	2.4	82
27	Refinement and field validation of a biotic ligand model predicting acute copper toxicity to Daphnia magna. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2002, 133, 243-258.	2.6	78
28	Development of a chronic zinc biotic ligand model for Daphnia magna. Ecotoxicology and Environmental Safety, 2005, 62, 1-10.	6.0	77
29	A bioavailability model predicting the toxicity of nickel to rainbow trout (Oncorhynchus mykiss) and fathead minnow (Pimephales promelas) in synthetic and natural waters. Ecotoxicology and Environmental Safety, 2007, 67, 1-13.	6.0	76
30	Uncertainties in the Environmental Risk Assessment of Metals. Human and Ecological Risk Assessment (HERA), 2000, 6, 1003-1018.	3.4	73
31	EFFECTS OF CHRONIC DIETARY COPPER EXPOSURE ON GROWTH AND REPRODUCTION OF DAPHNIA MAGNA. Environmental Toxicology and Chemistry, 2004, 23, 2038.	4.3	73
32	Development and validation of an acute biotic ligand model (BLM) predicting cobalt toxicity in soil to the potworm Enchytraeus albidus. Soil Biology and Biochemistry, 2006, 38, 1924-1932.	8.8	73
33	Influence of calcium, magnesium, sodium, potassium and pH on copper toxicity to barley (Hordeum) Tj ETQq1 1 0.784314 rgBT /Overlo	6.0	72
34	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.	8.0	72
35	Development and validation of a terrestrial biotic ligand model predicting the effect of cobalt on root growth of barley (Hordeum vulgare). Environmental Pollution, 2007, 147, 626-633.	7.5	67
36	Transgenerational Inheritance of DNA Hypomethylation in <i>Daphnia magna</i> in Response to Salinity Stress. Environmental Science & Technology, 2018, 52, 10114-10123.	10.0	67

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37	Metal Bioavailability Models: Current Status, Lessons Learned, Considerations for Regulatory Use, and the Path Forward. Environmental Toxicology and Chemistry, 2020, 39, 60-84.	4.3	67
38	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.	5.4	66
39	Element-to-tissue correlation in biological samples determined by three-dimensional X-ray imaging methods. Journal of Analytical Atomic Spectrometry, 2010, 25, 544.	3.0	64
40	Systematic Evaluation of Chronic Metal-Mixture Toxicity to Three Species and Implications for Risk Assessment. Environmental Science & Technology, 2017, 51, 4615-4623.	10.0	64
41	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.	3.7	59
42	A framework for ecological risk assessment of metal mixtures in aquatic systems. Environmental Toxicology and Chemistry, 2018, 37, 623-642.	4.3	58
43	Bisulfite Sequencing with <i>Daphnia</i> Highlights a Role for Epigenetics in Regulating Stress Response to <i>Microcystis</i> through Preferential Differential Methylation of Serine and Threonine Amino Acids. Environmental Science & Technology, 2017, 51, 924-931.	10.0	57
44	Speciation of nickel in surface waters measured with the Donnan membrane technique. Analytica Chimica Acta, 2006, 578, 195-202.	5.4	56
45	Metal Mixture Modeling Evaluation project: 2. Comparison of four modeling approaches. Environmental Toxicology and Chemistry, 2015, 34, 741-753.	4.3	55
46	Transgenerational DNA Methylation Changes in <i>Daphnia magna</i> Exposed to Chronic Î³ Irradiation. Environmental Science & Technology, 2018, 52, 4331-4339.	10.0	55
47	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.	10.0	54
48	Global cytosine methylation in <i>Daphnia magna</i> depends on genotype, environment, and their interaction. Environmental Toxicology and Chemistry, 2015, 34, 1056-1061.	4.3	53
49	Biotic ligand model development predicting Zn toxicity to the alga Pseudokirchneriella subcapitata: possibilities and limitations. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2002, 133, 207-218.	2.6	52
50	Bioavailability Models for Predicting Copper Toxicity to Freshwater Green Microalgae as a Function of Water Chemistry. Environmental Science & Technology, 2006, 40, 4514-4522.	10.0	52
51	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.	10.0	52
52	Ecotoxicity and uptake of polymer coated gold nanoparticles. Nanotoxicology, 2013, 7, 37-47.	3.0	51
53	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.	10.0	51
54	A combination of synchrotron and laboratory X-ray techniques for studying tissue-specific trace level metal distributions in Daphnia magna. Journal of Analytical Atomic Spectrometry, 2008, 23, 829.	3.0	50

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55	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.	6.0	49
56	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.	4.0	49
57	Measurement and computation of zinc binding to natural dissolved organic matter in European surface waters. Analytica Chimica Acta, 2005, 542, 230-239.	5.4	47
58	Comparison of nickel toxicity to cladocerans in soft versus hard surface waters. Aquatic Toxicology, 2007, 84, 223-235.	4.0	45
59	Do we have to incorporate ecological interactions in the sensitivity assessment of ecosystems? An examination of a theoretical assumption underlying species sensitivity distribution models. Environment International, 2008, 34, 390-396.	10.0	44
60	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.	4.3	44
61	Eco-, geno- and human toxicology of bio-active nanoparticles for biomedical applications. Toxicology, 2010, 269, 170-181.	4.2	43
62	The Effect of Lindane on Terrestrial Invertebrates. Archives of Environmental Contamination and Toxicology, 2002, 42, 217-221.	4.1	42
63	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.	8.2	42
64	The effects of dietary nickel exposure on growth and reproduction of Daphnia magna. Aquatic Toxicology, 2009, 94, 138-144.	4.0	40
65	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.	3.7	39
66	Gene Body Methylation Patterns inDaphniaAre Associated with Gene Family Size. Genome Biology and Evolution, 2016, 8, 1185-1196.	2.5	39
67	BIOTIC LIGAND MODEL PREDICTION OF COPPER TOXICITY TO DAPHNIDS IN A RANGE OF NATURAL WATERS IN CHILE. Environmental Toxicology and Chemistry, 2005, 24, 1287.	4.3	38
68	Cross-phylum comparison of a chronic biotic ligand model to predict chronic toxicity of copper to a freshwater rotifer, Brachionus calyciflorus (Pallas). Ecotoxicology and Environmental Safety, 2006, 63, 189-195.	6.0	38
69	Mixture toxicity of nickel and zinc to <i>Daphnia magna</i> is noninteractive at low effect sizes but becomes synergistic at high effect sizes. Environmental Toxicology and Chemistry, 2015, 34, 1091-1102.	4.3	38
70	Rapid Adaptation of a <i>Daphnia magna</i> Population to Metal Stress Is Associated with Heterozygote Excess. Environmental Science & Technology, 2015, 49, 9298-9307.	10.0	38
71	Early transcriptional response pathways in <i>Daphnia magna</i> are coordinated in networks of crustaceanâ€specific genes. Molecular Ecology, 2018, 27, 886-897.	3.9	38
72	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.	6.0	35

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73	Functional characterization of four metallothionein genes in Daphnia pulex exposed to environmental stressors. Aquatic Toxicology, 2012, 110-111, 54-65.	4.0	35
74	Three-Dimensional Reconstruction of the Tissue-Specific Multielemental Distribution within <i>Ceriodaphnia dubia</i> via Multimodal Registration Using Laser Ablation ICP-Mass Spectrometry and X-ray Spectroscopic Techniques. Analytical Chemistry, 2017, 89, 4161-4168.	6.5	35
75	Multigenerational Effects of the Antibiotic Tetracycline on Transcriptional Responses of <i>Daphnia magna</i> and Its Relationship to Higher Levels of Biological Organizations. Environmental Science & Technology, 2017, 51, 12898-12907.	10.0	34
76	Validation of an ecosystem modelling approach as a tool for ecological effect assessments. Chemosphere, 2008, 71, 529-545.	8.2	33
77	A single bioavailability model can accurately predict Ni toxicity to green microalgae in soft and hard surface waters. Water Research, 2009, 43, 1935-1947.	11.3	33
78	The chronic toxicity of molybdate to freshwater organisms. I. Generating reliable effects data. Science of the Total Environment, 2010, 408, 5362-5371.	8.0	33
79	The effect of binary mixtures of zinc, copper, cadmium, and nickel on the growth of the freshwater diatom <i>Navicula pelliculosa</i> and comparison with mixture toxicity model predictions. Environmental Toxicology and Chemistry, 2016, 35, 2765-2773.	4.3	33
80	Validation of the nickel biotic ligand model for locally relevant species in Australian freshwaters. Environmental Toxicology and Chemistry, 2018, 37, 2566-2574.	4.3	33
81	Effect of Varying Physicochemistry of European Surface Waters on the Copper Toxicity to the Green Alga Pseudokirchneriella subcapitata. Ecotoxicology, 2005, 14, 661-670.	2.4	32
82	Comparing ecotoxicological effect concentrations of chemicals established in multi-species vs. single-species toxicity test systems. Ecotoxicology and Environmental Safety, 2009, 72, 310-315.	6.0	32
83	Development and validation of a biotic ligand model for predicting chronic toxicity of lead to <i>Ceriodaphnia dubia</i>. Environmental Toxicology and Chemistry, 2014, 33, 394-403.	4.3	32
84	Effect of temperature on chronic toxicity of copper, zinc, and nickel to <i>Daphnia magna</i>. Environmental Toxicology and Chemistry, 2017, 36, 1909-1916.	4.3	32
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.	4.3	31
86	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.	2.7	31
87	Waterborne versus Dietary Zinc Accumulation and Toxicity in <i>Daphnia magna</i>: a Synchrotron Radiation Based X-ray Fluorescence Imaging Approach. Environmental Science & Technology, 2012, 46, 1178-1184.	10.0	30
88	Are interactive effects of harmful algal blooms and copper pollution a concern for water quality management?. Water Research, 2014, 60, 41-53.	11.3	30
89	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.	4.3	30
90	Non-lethal heat shock increases tolerance to metal exposure in brine shrimp. Environmental Research, 2016, 151, 663-670.	7.5	30

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91	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.	2.9	29
92	Development of an electrostatic model predicting copper toxicity to plants. Journal of Experimental Botany, 2012, 63, 659-668.	4.8	29
93	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.	4.0	29
94	The derivation of effects threshold concentrations of lead for European freshwater ecosystems. Environmental Toxicology and Chemistry, 2016, 35, 1310-1320.	4.3	29
95	Validation of a two-generational reproduction test in Daphnia magna: An interlaboratory exercise. Science of the Total Environment, 2017, 579, 1073-1083.	8.0	29
96	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.	3.0	29
97	The transcriptome of the marine calanoid copepod Temora longicornis under heat stress and recovery. Marine Environmental Research, 2019, 143, 10-23.	2.5	29
98	Experimental evolution reveals high insecticide tolerance in <i>Daphnia</i> inhabiting farmland ponds. Evolutionary Applications, 2015, 8, 442-453.	3.1	27
99	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.	3.3	27
100	Zinc toxicity to the alga Pseudokirchneriella subcapitata decreases under phosphate limiting growth conditions. Aquatic Toxicology, 2016, 173, 74-82.	4.0	27
101	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.	3.7	26
102	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.	8.0	26
103	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.	3.0	26
104	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.	4.0	26
105	Using the Biotic Ligand Model for Predicting the Acute Sensitivity of Cladoceran Dominated Communities to Copper in Natural Surface Waters. Environmental Science & Technology, 2004, 38, 5030-5037.	10.0	25
106	Reverse osmosis sampling does not affect the protective effect of dissolved organic matter on copper and zinc toxicity to freshwater organisms. Chemosphere, 2005, 58, 653-658.	8.2	25
107	Toxicological availability of nickel to the benthic oligochaete Lumbriculus variegatus. Environment International, 2007, 33, 736-742.	10.0	25
108	The micro-evolutionary potential of Daphnia magna population exposed to temperature and cadmium stress. Ecotoxicology and Environmental Safety, 2010, 73, 1114-1122.	6.0	25

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109	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.	2.6	25
110	Evolutionary toxicology: Meta-analysis of evolutionary events in response to chemical stressors. Ecotoxicology, 2016, 25, 1858-1866.	2.4	25
111	The fatty acid profile of rainbow trout liver cells modulates their tolerance to methylmercury and cadmium. Aquatic Toxicology, 2016, 177, 171-181.	4.0	25
112	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.	4.3	25
113	An ecosystem modelling approach for deriving water quality criteria. Water Science and Technology, 2007, 56, 19-27.	2.5	24
114	Reproductive toxicity of binary and ternary mixture combinations of nickel, zinc, and lead to <i>Ceriodaphnia dubia</i> is best predicted with the independent action model. Environmental Toxicology and Chemistry, 2016, 35, 1796-1805.	4.3	24
115	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.	4.3	24
116	VARIABILITY OF THE PROTECTIVE EFFECT OF SODIUM ON THE ACUTE TOXICITY OF COPPER TO FRESHWATER CLADOCERANS. Environmental Toxicology and Chemistry, 2007, 26, 535.	4.3	23
117	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.	7.3	23
118	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.	2.5	23
119	A comparison of the short-term toxicity of cadmium to indigenous and alien gammarid species. Ecotoxicology, 2012, 21, 1135-1144.	2.4	22
120	Comparison of chronic mixture toxicity of nickelâ€zincâ€copper and nickelâ€zincâ€copperâ€cadmium mixtures between <i>Ceriodaphnia dubia</i> and <i>Pseudokirchneriella subcapitata</i>. Environmental Toxicology and Chemistry, 2017, 36, 1056-1066.	4.3	22
121	Dual detection X-ray fluorescence cryotomography and mapping on the model organism <i>Daphnia magna</i>. Powder Diffraction, 2010, 25, 169-174.	0.2	21
122	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.	10.0	21
123	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.	4.3	21
124	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.	5.0	21
125	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.	4.0	20
126	A comparison of the sensitivities of Daphnia magna and Daphnia pulex to six different cyanobacteria. Harmful Algae, 2014, 39, 1-7.	4.8	20

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127	Optimizing the design of a reproduction toxicity test with the pond snail Lymnaea stagnalis. Regulatory Toxicology and Pharmacology, 2016, 81, 47-56.	2.7	20
128	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.	7.5	20
129	Deciphering the Combined Effects of Environmental Stressors on Gene Transcription: A Conceptual Approach. Environmental Science & Technology, 2018, 52, 5479-5489.	10.0	20
130	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.	6.0	19
131	Development of Thermosensitive Hydrogels of Chitosan, Sodium and Magnesium Glycerophosphate for Bone Regeneration Applications. Journal of Functional Biomaterials, 2015, 6, 192-203.	4.4	19
132	Common European harmful algal blooms affect the viability and innate immune responses of Mytilus edulis larvae. Fish and Shellfish Immunology, 2015, 47, 175-181.	3.6	19
133	Is ecosystem structure the target of concern in ecological effect assessments?. Water Research, 2008, 42, 2395-2402.	11.3	18
134	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.	1.8	18
135	Hard X-ray nanoprobe investigations of the subtissue metal distributions within Daphnia magna. Analytical and Bioanalytical Chemistry, 2013, 405, 6061-6068.	3.7	18
136	Development and Validation of a Mixture Toxicity Implementation in the Dynamic Energy Budgetâ€“Individualâ€•Based Model: Effects of Copper and Zinc on <i>Daphnia magna</i> Populations. Environmental Toxicology and Chemistry, 2021, 40, 513-527.	4.3	18
137	PREDICTING ACUTE ZINC TOXICITY FOR DAPHNIA MAGNA AS A FUNCTION OF KEY WATER CHEMISTRY CHARACTERISTICS: DEVELOPMENT AND VALIDATION OF A BIOTIC LIGAND MODEL. Environmental Toxicology and Chemistry, 2002, 21, 1309.	4.3	18
138	Distribution of the invasive calanoid copepod Pseudodiaptomus marinus (Sato, 1913) in the Belgian part of the North Sea. BioInvasions Records, 2018, 7, 33-41.	1.1	18
139	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.	4.3	17
140	Conserved transcriptional responses to cyanobacterial stressors are mediated by alternate regulation of paralogous genes in <i>Daphnia</i>. Molecular Ecology, 2015, 24, 1844-1855.	3.9	17
141	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.	5.3	17
142	Liposomes as an alternative delivery system for investigating dietary metal toxicity to Daphnia magna. Aquatic Toxicology, 2011, 105, 661-668.	4.0	16
143	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.	4.0	16
144	Aquatic exposures of chemical mixtures in urban environments: Approaches to impact assessment. Environmental Toxicology and Chemistry, 2018, 37, 703-714.	4.3	16

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145	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.	2.5	16
146	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.	2.4	15
147	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.	2.1	15
148	Integration of molecular with higher-level effects of dietary zinc exposure in Daphnia magna. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2008, 3, 307-314.	1.0	14
149	Combined exposure to cyanobacteria and carbaryl results in antagonistic effects on the reproduction of daphnia pulex. Environmental Toxicology and Chemistry, 2013, 32, 2153-2158.	4.3	14
150	The effects of zinc on the structure and functioning of a freshwater community: A microcosm experiment. Environmental Toxicology and Chemistry, 2016, 35, 2698-2712.	4.3	14
151	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.	7.5	14
152	Aerosolizable Marine Phycotoxins and Human Health Effects: In Vitro Support for the Biogenics Hypothesis. Marine Drugs, 2020, 18, 46.	4.6	14
153	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.	4.0	14
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