Heiko L Schoenfuss

List of Publications by Year
in descending order

84 papers	3,266 citations	159358 30 h-index	155451 55 g-index
84 all docs	84 docs citations	84 times ranked	2911 citing authors

#	Article	IF	Citations
1	Antidepressant Pharmaceuticals in Two U.S. Effluent-Impacted Streams: Occurrence and Fate in Water and Sediment, and Selective Uptake in Fish Neural Tissue. Environmental Science & Technology, 2010, 44, 1918-1925.	4.6	429
2	Antidepressants at environmentally relevant concentrations affect predator avoidance behavior of larval fathead minnows (Pimephales promelas). Environmental Toxicology and Chemistry, 2009, 28, 2677-2684.	2.2	276
3	Selective uptake and biological consequences of environmentally relevant antidepressant pharmaceutical exposures on male fathead minnows. Aquatic Toxicology, 2011, 104, 38-47.	1.9	210
4	Demasculinization of male fish by wastewater treatment plant effluent. Aquatic Toxicology, 2011, 103, 213-221.	1.9	152
5	Reproductive responses of male fathead minnows exposed to wastewater treatment plant effluent, effluent treated with XAD8 resin, and an environmentally relevant mixture of alkylphenol compounds. Aquatic Toxicology, 2007, 82, 36-46.	1.9	101
6	Kinematics of waterfall climbing in Hawaiian freshwater fishes (Gobiidae): vertical propulsion at the aquaticâ€“terrestrial interface. Journal of Zoology, 2003, 261, 191-205.	0.8	99
7	Contaminants of emerging concern in urban stormwater: Spatiotemporal patterns and removal by iron-enhanced sand filters (IESFs). Water Research, 2018, 145, 332-345.	5.3	87
8	Predator avoidance performance of larval fathead minnows (Pimephales promelas) following short-term exposure to estrogen mixtures. Aquatic Toxicology, 2009, 91, 355-361.	1.9	79
9	Functional diversity in extreme environments: effects of locomotor style and substrate texture on the waterfall-climbing performance of Hawaiian gobiid fishes. Journal of Zoology, 2006, 268, 315-324.	0.8	78
10	Anthropogenic tracers, endocrine disrupting chemicals, and endocrine disruption in Minnesota lakes. Science of the Total Environment, 2010, 409, 100-111.	3.9	73
11	Comparing biological effects and potencies of estrone and 17Î²-estradiol in mature fathead minnows, Pimephales promelas. Aquatic Toxicology, 2011, 105, 559-568.	1.9	69
12	Comparative biological effects and potency of 17Î±- and 17Î²-estradiol in fathead minnows. Aquatic Toxicology, 2010, 100, 1-8.	1.9	68
13	Effects of Triclosan and Triclocarban, Two Ubiquitous Environmental Contaminants, on Anatomy, Physiology, and Behavior of the Fathead Minnow (Pimephales promelas). Archives of Environmental Contamination and Toxicology, 2012, 63, 114-124.	2.1	68
14	Impairment of the reproductive potential of male fathead minnows by environmentally relevant exposures to 4-nonylphenolf. Aquatic Toxicology, 2008, 86, 91-98.	1.9	62
15	Performance and scaling of a novel locomotor structure: adhesive capacity of climbing gobiid fishes. Journal of Experimental Biology, 2012, 215, 3925-3936.	0.8	62
16	Morphological Selection and the Evaluation of Potential Tradeoffs Between Escape from Predators and the Climbing of Waterfalls in the Hawaiian Stream Goby Sicyopterus stimpsoni. Integrative and Comparative Biology, 2010, 50, 1185-1199.	0.9	61
17	Effects of biologically-active chemical mixtures on fish in a wastewater-impacted urban stream. Science of the Total Environment, 2011, 409, 4720-4728.	3.9	57
18	Perfluorinated compounds in common carp (Cyprinus carpio) fillets from the Upper Mississippi River. Environment International, 2008, 34, 932-938.	4.8	54

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19	Morphological selection in an extreme flow environment: body shape and waterfall-climbing success in the Hawaiian stream fish Sicyopterus stimpsoni. Integrative and Comparative Biology, 2008, 48, 734-749.	0.9	54
20	Exposure and effects of perfluoroalkyl compounds on tree swallows nesting at Lake Johanna in east central Minnesota, USA. Reproductive Toxicology, 2012, 33, 556-562.	1.3	54
21	Complex mixtures, complex responses: Assessing pharmaceutical mixtures using field and laboratory approaches. Environmental Toxicology and Chemistry, 2016, 35, 953-965.	2.2	53
22	Larval exposure to environmentally relevant mixtures of alkylphenolethoxylates reduces reproductive competence in male fathead minnows. Aquatic Toxicology, 2006, 79, 268-277.	1.9	52
23	Environmental estrogens in an urban aquatic ecosystem: II. Biological effects. Environment International, 2013, 61, 138-149.	4.8	47
24	Local adaptation despite high gene flow in the waterfallâ€climbing Hawaiian goby, Sicyopterus stimpsoni. Molecular Ecology, 2015, 24, 545-563.	2.0	42
25	Ontogenetic change in novel functions: waterfall climbing in adult Hawaiian gobiid fishes. Journal of Zoology, 2007, 273, 200-209.	0.8	41
26	Contaminants of emerging concern presence and adverse effects in fish: A case study in the Laurentian Great Lakes. Environmental Pollution, 2018, 236, 718-733.	3.7	41
27	Phytoestrogens in the environment, I: Occurrence and exposure effects on fathead minnows. Environmental Toxicology and Chemistry, 2014, 33, 553-559.	2.2	38
28	Uptake and Disposition of Select Pharmaceuticals by Bluegill Exposed at Constant Concentrations in a Flow-Through Aquatic Exposure System. Environmental Science & Technology, 2017, 51, 4434-4444.	4.6	34
29	Assessing the effects of exposure timing on biomarker expression using 17Î²-estradiol. Aquatic Toxicology, 2010, 96, 264-272.	1.9	33
30	Concentration of organic contaminants in fish and their biological effects in a wastewater-dominated urban stream. Science of the Total Environment, 2012, 420, 191-201.	3.9	30
31	Environmental estrogens in an urban aquatic ecosystem: I. Spatial and temporal occurrence of estrogenic activity in effluent-dominated systems. Environment International, 2013, 61, 127-137.	4.8	30
32	Empowering Citizen Scientists: The Strength of Many in Monitoring Biologically Active Environmental Contaminants. BioScience, 2011, 61, 626-630.	2.2	29
33	Land Use Contributions to Adverse Biological Effects in a Complex Agricultural and Urban Watershed: A Case Study of the Maumee River. Environmental Toxicology and Chemistry, 2019, 38, 1035-1051.	2.2	28
34	Transcriptomic Effects-Based Monitoring for Endocrine Active Chemicals: Assessing Relative Contribution of Treated Wastewater to Downstream Pollution. Environmental Science & Technology, 2014, 48, 140110103918000.	4.6	27
35	The survival of Sicyopterus stimpsoni, an endemic amphidromous Hawaiian gobiid fish, relies on the hydrological cycles of streams: evidence from changes in algal composition of diet through growth stages fish. Aquatic Ecology, 2005, 39, 473-484.	0.7	26
36	Contaminants of emerging concern in tributaries to the Laurentian Great Lakes: II. Biological consequences of exposure. PLoS ONE, 2017, 12, e0184725.	1.1	26

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37	Evolutionary Novelty versus Exaptation: Oral Kinematics in Feeding versus Climbing in the Waterfall-Climbing Hawaiian Goby Sicyopterus stimpsoni. PLoS ONE, 2013, 8, e53274.	1.1	22
38	Muscle fiber type distribution in climbing Hawaiian gobioid fishes: Ontogeny and correlations with locomotor performance. Zoology, 2008, 111, 114-122.	0.6	21
39	Musculoskeletal determinants of pelvic sucker function in hawaiian stream gobiid fishes: Interspecific comparisons and allometric scaling. Journal of Morphology, 2013, 274, 733-742.	0.6	19
40	Stairway to Heaven: Evaluating Levels of Biological Organization Correlated with the Successful Ascent of Natural Waterfalls in the Hawaiian Stream Goby Sicyopterus stimpsoni. PLoS ONE, 2013, 8, e84851.	1.1	19
41	Differences in locomotor behavior correspond to different patterns of morphological selection in two species of waterfall-climbing gobiid fishes. Evolutionary Ecology, 2013, 27, 949-969.	0.5	18
42	Effects of water hardness on skeletal development and growth in juvenile fathead minnows. Aquaculture, 2009, 286, 226-232.	1.7	17
43	The anatomy of the larynx of the bowhead whale, Balaena mysticetus, and its soundâ€producing functions. Anatomical Record, 2014, 297, 1316-1330.	0.8	17
44	Thermal modulation of anthropogenic estrogen exposure on a freshwater fish at two life stages. Hormones and Behavior, 2017, 94, 21-32.	1.0	17
45	Sex-Specific Gonadal and Gene Expression Changes throughout Development in Fathead Minnow. Sexual Development, 2013, 7, 303-307.	1.1	16
46	Feeding performance of the Hawaiian sleeper,Eleotris sandwicensis(Gobioidei: Eleotridae): correlations between predatory functional modulation and selection pressures on prey. Biological Journal of the Linnean Society, 2014, 111, 359-374.	0.7	15
47	Onâ€Site Exposure to Treated Wastewater Effluent Has Subtle Effects on Male Fathead Minnows and Pronounced Effects on Carp. Journal of the American Water Resources Association, 2014, 50, 358-375.	1.0	15
48	Prior knowledge-based approach for associating contaminants with biological effects: A case study in the St. Croix River basin, MN, WI, USA. Environmental Pollution, 2017, 221, 427-436.	3.7	15
49	Finding paradise: cues directing the migration of the waterfall climbing Hawaiian gobioid Sicyopterus stimpsoni. Journal of Fish Biology, 2012, 81, 903-920.	0.7	14
50	Contrasting post-settlement selection results in many-to-one mapping of high performance phenotypes in the Hawaiian waterfall-climbing goby Sicyopterus stimpsoni. Evolutionary Ecology, 2017, 31, 489-516.	0.5	14
51	Temperature modulates estrone degradation and biological effects of exposure in fathead minnows. Science of the Total Environment, 2018, 621, 1591-1600.	3.9	14
52	Correlating effluent concentrations and bench-scale experiments to assess the transformation of endocrine active compounds in wastewater by UV or chlorination disinfection. Chemosphere, 2019, 226, 565-575.	4.2	14
53	Functional Diversity of Evolutionary Novelties: Insights from Waterfall-Climbing Kinematics and Performance of Juvenile Gobiid Fishes. Integrative Organismal Biology, 2019, 1, obz029.	0.9	14
54	Jaw lever analysis of Hawaiian gobioid stream fishes: A simulation study of morphological diversity and functional performance. Journal of Morphology, 2009, 270, 976-983.	0.6	13

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55	Fathead Minnow and Bluegill Sunfish Lifeâ€Stage Responses to 17Î²â€Estradiol Exposure in Outdoor Mesocosms. Journal of the American Water Resources Association, 2014, 50, 376-387.	1.0	13
56	The mini mobile environmental monitoring unit: a novel bio-assessment tool. Journal of Environmental Monitoring, 2012, 14, 202-208.	2.1	12
57	Flowing water affects fish fast-starts: escape performance of the Hawaiian stream goby, Sicyopterus stimpsoni. Journal of Experimental Biology, 2016, 219, 3100-3105.	0.8	12
58	Effects of urban stormwater and ironâ€enhanced sand filtration on Daphnia magna and Pimephales promelas. Environmental Toxicology and Chemistry, 2018, 37, 2645-2659.	2.2	12
59	Assessing the Effects of Historical Exposure to Endocrine-Active Compounds on Reproductive Health and Genetic Diversity in Walleye, a Native Apex Predator, in a Large Riverine System. Archives of Environmental Contamination and Toxicology, 2012, 62, 657-671.	2.1	11
60	Biological consequences of agricultural and urban land-use along the Maumee River, a major tributary to the Laurentian Great Lakes watershed. Journal of Great Lakes Research, 2020, 46, 1001-1014.	0.8	11
61	Jaw muscle fiber type distribution in Hawaiian gobioid stream fishes: histochemical correlations with feeding ecology and behavior. Zoology, 2011, 114, 340-347.	0.6	10
62	Estrogen-receptor independent effects of two ubiquitous environmental estrogens on Melosira varians Agardh, a common component of the aquatic primary production community. Aquatic Toxicology, 2007, 85, 19-27.	1.9	9
63	Feeding kinematics and performance of Hawaiian stream gobies, Awaous guamensis and Lentipes concolor: Linkage of functional morphology and ecology. Journal of Morphology, 2009, 270, 344-356.	0.6	9
64	Spatial and Temporal Patterns of Endocrine Active Chemicals in Small Streams Indicate Differential Exposure to Aquatic Organisms. Journal of the American Water Resources Association, 2014, 50, 401-419.	1.0	9
65	Identifying Non-point Sources of Endocrine Active Compounds and Their Biological Impacts in Freshwater Lakes. Archives of Environmental Contamination and Toxicology, 2014, 67, 374-388.	2.1	9
66	Contaminants of Emerging Concern in the Lower Volta River, Ghana, West Africa: The Agriculture, Aquaculture, and Urban Development Nexus. Environmental Toxicology and Chemistry, 2022, 41, 369-381.	2.2	9
67	Motor patterns of distal hind limb muscles in walking turtles: Implications for models of limb bone loading. Journal of Morphology, 2010, 271, 1527-1536.	0.6	8
68	Environmental Scientists, Biologically Active Compounds, and Sustainability: The Vital Role for Small-Scale Scienceâ€. Environmental Science & Technology, 2011, 45, 39-44.	4.6	8
69	Complex watersheds, collaborative teams: Assessing pollutant presence and effects in the San Francisco Delta. Integrated Environmental Assessment and Management, 2015, 11, 674-688.	1.6	8
70	Do Laboratory Species Protect Endangered Species? Interspecies Variation in Responses to 17Î²-Estradiol, a Model Endocrine Active Compound. Archives of Environmental Contamination and Toxicology, 2015, 68, 204-215.	2.1	8
71	Treated Wastewater Effluent Reduces Sperm Motility Along an Osmolality Gradient. Archives of Environmental Contamination and Toxicology, 2009, 56, 397-407.	2.1	7
72	Phytoestrogens in the environment, II: Microbiological degradation of phytoestrogens and the response of fathead minnows to degradate exposure. Environmental Toxicology and Chemistry, 2014, 33, 560-566.	2.2	6

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73	Sticking to it: testing passive pull-off forces in waterfall-climbing fishes across challenging substrates. Journal of Experimental Biology, 2021, 224, .	0.8	6
74	Application of an Effectsâ€Based Monitoring Strategy to Assess the Impact of Contaminants on Fish Health in an Urbanized Watershed. Environmental Toxicology and Chemistry, 2021, 40, 402-412.	2.2	5
75	Technical note: The equivalency of sodium results in cheese digested by either dry ashing or microwave-accelerated digestion. Journal of Dairy Science, 2014, 97, 710-714.	1.4	4
76	Functional correlations of axial muscle fiber type proportions in the waterfallâ€climbing Hawaiian stream fish Sicyopterus stimpsoni. Journal of Anatomy, 2020, 236, 1160-1166.	0.9	4
77	Sorption of isoflavones to river sediment and model sorbents and outcomes for larval fish exposed to contaminated sediment. Journal of Hazardous Materials, 2015, 282, 26-33.	6.5	3
78	Social hierarchy modulates responses of fish exposed to contaminants of emerging concern. PLoS ONE, 2017, 12, e0186807.	1.1	3
79	Bendy to the bone: Links between vertebral morphology and waterfall climbing in amphidromous gobioid fishes. Journal of Anatomy, 2021, 239, 747-754.	0.9	3
80	Assessing Occurrence and Biological Consequences of Contaminants of Emerging Concern on Oceanic Islands. Water (Switzerland), 2022, 14, 275.	1.2	2
81	Temperature-Dependent Biomarkers of Estrogenic Exposure in a Piscivore Freshwater Fish. Archives of Environmental Contamination and Toxicology, 2020, 79, 156-166.	2.1	1
82	In Response: Embracing â€˜omic diversity: A mixed academic/government perspective. Environmental Toxicology and Chemistry, 2015, 34, 702-704.	2.2	0
83	CAN'T FIND THE RHYTHM. Integrated Environmental Assessment and Management, 2018, 14, 660-663.	1.6	0
84	Using the Daphnia magna Transcriptome to Distinguish Water Source: Wetland and Stormwater Case Studies. Environmental Toxicology and Chemistry, 0, , .	2.2	0