

Nathaniel L Scholz

List of Publications by Year in Descending Order

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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.

94 papers	7,374 citations	46 h-index	85 g-index
97 ext. papers	8,249 ext. citations	6.4 avg, IF	5.84 L-index

#	Paper	IF	Citations
94	Low-level embryonic crude oil exposure disrupts ventricular ballooning and subsequent trabeculation in Pacific herring. <i>Aquatic Toxicology</i> , 2021 , 235, 105810	5.1	1
93	A ubiquitous tire rubber-derived chemical induces acute mortality in coho salmon. <i>Science</i> , 2021 , 371, 185-189	33.3	140
92	Decreased Growth Rate Associated with Tissue Contaminants in Juvenile Chinook Salmon Out-Migrating through an Industrial Waterway. <i>Environmental Science & Technology</i> , 2021 , 55, 9968-9978	10.3	103
91	Treading Water: Tire Wear Particle Leachate Recreates an Urban Runoff Mortality Syndrome in Coho but Not Chum Salmon. <i>Environmental Science & Technology</i> , 2021 , 55, 11767-11774	10.3	11
90	Urban stormwater and crude oil injury pathways converge on the developing heart of a shore-spawning marine forage fish. <i>Aquatic Toxicology</i> , 2020 , 229, 105654	5.1	3
89	Sublethal neurotoxicity of organophosphate insecticides to juvenile coho salmon. <i>Aquatic Toxicology</i> , 2020 , 221, 105424	5.1	8
88	Embryonic Crude Oil Exposure Impairs Growth and Lipid Allocation in a Keystone Arctic Forage Fish. <i>IScience</i> , 2019 , 19, 1101-1113	6.1	24
87	Legacy habitat contamination as a limiting factor for Chinook salmon recovery in the Willamette Basin, Oregon, USA. <i>PLoS ONE</i> , 2019 , 14, e0214399	3.7	7
86	An urban stormwater runoff mortality syndrome in juvenile coho salmon. <i>Aquatic Toxicology</i> , 2019 , 214, 105231	5.1	12
85	Cardiac remodeling in response to embryonic crude oil exposure involves unconventional NKX family members and innate immunity genes. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	5
84	Review of and Recommendations for Monitoring Contaminants and their Effects in the San Francisco BayDelta. <i>San Francisco Estuary and Watershed Science</i> , 2019 , 17,	1.4	1
83	Interspecies variation in the susceptibility of adult Pacific salmon to toxic urban stormwater runoff. <i>Environmental Pollution</i> , 2018 , 238, 196-203	9.3	26
82	Crude oil cardiotoxicity to red drum embryos is independent of oil dispersion energy. <i>Chemosphere</i> , 2018 , 213, 205-214	8.4	8
81	Case Study: The 2010 Deepwater Horizon Oil Spill and Its Environmental Developmental Impacts 2018 , 235-283		10
80	Using High-Resolution Mass Spectrometry to Identify Organic Contaminants Linked to Urban Stormwater Mortality Syndrome in Coho Salmon. <i>Environmental Science & Technology</i> , 2018 , 52, 10317-10327	10.3	75
79	A Novel Cardiotoxic Mechanism for a Pervasive Global Pollutant. <i>Scientific Reports</i> , 2017 , 7, 41476	4.9	80
78	Roads to ruin: conservation threats to a sentinel species across an urban gradient 2017 , 27, 2382-2396		32

77	Environmental Pollution and the Fish Heart. <i>Fish Physiology</i> , 2017 , 36, 373-433	2	10
76	Development of suspect and non-target screening methods for detection of organic contaminants in highway runoff and fish tissue with high-resolution time-of-flight mass spectrometry. <i>Environmental Sciences: Processes and Impacts</i> , 2017 , 19, 1185-1196	4.3	59
75	Novel adverse outcome pathways revealed by chemical genetics in a developing marine fish. <i>ELife</i> , 2017 , 6,	8.9	62
74	The influence of heart developmental anatomy on cardiotoxicity-based adverse outcome pathways in fish. <i>Aquatic Toxicology</i> , 2016 , 177, 515-25	5.1	84
73	The effects of weathering and chemical dispersion on Deepwater Horizon crude oil toxicity to mahi-mahi (<i>Coryphaena hippurus</i>) early life stages. <i>Science of the Total Environment</i> , 2016 , 543, 644-651	10.2	129
72	Coho salmon spawner mortality in western US urban watersheds: bioinfiltration prevents lethal storm water impacts. <i>Journal of Applied Ecology</i> , 2016 , 53, 398-407	5.8	36
71	Severe Coal Tar Sealcoat Runoff Toxicity to Fish Is Prevented by Bioretention Filtration. <i>Environmental Science & Technology</i> , 2016 , 50, 1570-8	10.3	16
70	Confirmation of Stormwater Bioretention Treatment Effectiveness Using Molecular Indicators of Cardiovascular Toxicity in Developing Fish. <i>Environmental Science & Technology</i> , 2016 , 50, 1561-9	10.3	28
69	Soil bioretention protects juvenile salmon and their prey from the toxic impacts of urban stormwater runoff. <i>Chemosphere</i> , 2015 , 132, 213-9	8.4	60
68	The challenge: "bridging the gap" with fish: advances in assessing exposure and effects across biological scales. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 459	3.8	11
67	Ecotoxicological Risk of Mixtures 2015 , 441-462		2
66	In response: scaling polycyclic aromatic hydrocarbon toxicity to fish early life stages: a governmental perspective. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 459-61	3.8	13
65	Very low embryonic crude oil exposures cause lasting cardiac defects in salmon and herring. <i>Scientific Reports</i> , 2015 , 5, 13499	4.9	101
64	Corresponding morphological and molecular indicators of crude oil toxicity to the developing hearts of mahi mahi. <i>Scientific Reports</i> , 2015 , 5, 17326	4.9	77
63	Deepwater Horizon crude oil impacts the developing hearts of large predatory pelagic fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1510-8	11.5	304
62	Crude oil impairs cardiac excitation-contraction coupling in fish. <i>Science</i> , 2014 , 343, 772-6	33.3	241
61	Acute embryonic or juvenile exposure to Deepwater Horizon crude oil impairs the swimming performance of mahi-mahi (<i>Coryphaena hippurus</i>). <i>Environmental Science & Technology</i> , 2014 , 48, 7053-61	10.3	167
60	Zebrafish and clean water technology: assessing soil bioretention as a protective treatment for toxic urban runoff. <i>Science of the Total Environment</i> , 2014 , 500-501, 173-80	10.2	45

59	A modeled comparison of direct and food web-mediated impacts of common pesticides on Pacific salmon. <i>PLoS ONE</i> , 2014 , 9, e92436	3.7	17
58	Elevated temperatures increase the toxicity of pesticide mixtures to juvenile coho salmon. <i>Aquatic Toxicology</i> , 2014 , 146, 38-44	5.1	48
57	Exxon Valdez to Deepwater Horizon: comparable toxicity of both crude oils to fish early life stages. <i>Aquatic Toxicology</i> , 2013 , 142-143, 303-16	5.1	151
56	Interactive neurobehavioral toxicity of diazinon, malathion, and ethoprop to juvenile coho salmon. <i>Environmental Science & Technology</i> , 2013 , 47, 2925-31	10.3	26
55	Predicted transport of pyrethroid insecticides from an urban landscape to surface water. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 2469-77	3.8	17
54	Life Histories, Salinity Zones, and Sublethal Contributions of Contaminants to Pelagic Fish Declines Illustrated with a Case Study of San Francisco Estuary, California, USA. <i>Estuaries and Coasts</i> , 2012 , 35, 603-621	2.8	44
53	Unexpectedly high mortality in Pacific herring embryos exposed to the 2007 Cosco Busan oil spill in San Francisco Bay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E51-8	11.5	111
52	Low-level copper exposures increase visibility and vulnerability of juvenile coho salmon to cutthroat trout predators 2012 , 22, 1460-71		71
51	A Perspective on Modern Pesticides, Pelagic Fish Declines, and Unknown Ecological Resilience in Highly Managed Ecosystems. <i>BioScience</i> , 2012 , 62, 428-434	5.7	58
50	Potent phototoxicity of marine bunker oil to translucent herring embryos after prolonged weathering. <i>PLoS ONE</i> , 2012 , 7, e30116	3.7	41
49	Copper-induced olfactory toxicity in salmon and steelhead: extrapolation across species and rearing environments. <i>Aquatic Toxicology</i> , 2011 , 101, 295-7	5.1	46
48	Transcriptional impact of organophosphate and metal mixtures on olfaction: copper dominates the chlorpyrifos-induced response in adult zebrafish. <i>Aquatic Toxicology</i> , 2011 , 102, 205-15	5.1	38
47	Landscape ecotoxicology of coho salmon spawner mortality in urban streams. <i>PLoS ONE</i> , 2011 , 6, e23424	3.7	32
46	Oil spills and fish health: exposing the heart of the matter. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2011 , 21, 3-4	6.7	50
45	Cardiac toxicity of 5-ring polycyclic aromatic hydrocarbons is differentially dependent on the aryl hydrocarbon receptor 2 isoform during zebrafish development. <i>Toxicology and Applied Pharmacology</i> , 2011 , 257, 242-9	4.6	135
44	Pyrethroid insecticides in urban salmon streams of the Pacific Northwest. <i>Environmental Pollution</i> , 2011 , 159, 3051-6	9.3	56
43	Estimating the future decline of wild coho salmon populations resulting from early spawner die-offs in urbanizing watersheds of the Pacific Northwest, USA. <i>Integrated Environmental Assessment and Management</i> , 2011 , 7, 648-56	2.5	43
42	Sublethal exposure to crude oil during embryonic development alters cardiac morphology and reduces aerobic capacity in adult fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7086-90	11.5	253

41	Recurrent die-offs of adult coho salmon returning to spawn in Puget Sound lowland urban streams. <i>PLoS ONE</i> , 2011 , 6, e28013	3.7	64
40	Pesticides, aquatic food webs, and the conservation of Pacific salmon. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 475-482	5.5	53
39	Olfactory toxicity in fishes. <i>Aquatic Toxicology</i> , 2010 , 96, 2-26	5.1	218
38	Natural sunlight and residual fuel oils are an acutely lethal combination for fish embryos. <i>Aquatic Toxicology</i> , 2010 , 99, 56-64	5.1	36
37	A fish of many scales: extrapolating sublethal pesticide exposures to the productivity of wild salmon populations 2009 , 19, 2004-15		93
36	Effects of water hardness, alkalinity, and dissolved organic carbon on the toxicity of copper to the lateral line of developing fish. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 1455-61	3.8	40
35	Cardiac arrhythmia is the primary response of embryonic Pacific herring (<i>Clupea pallasii</i>) exposed to crude oil during weathering. <i>Environmental Science & Technology</i> , 2009 , 43, 201-7	10.3	180
34	Effects of the synthetic estrogen, 17alpha-ethinylestradiol, on aggression and courtship behavior in male zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2009 , 91, 346-54	5.1	127
33	Barging Effects on Sensory Systems of Chinook Salmon Smolts. <i>Transactions of the American Fisheries Society</i> , 2009 , 138, 777-789	1.7	13
32	Evaluating the Effects of Forestry Herbicides on Fish Development Using Rapid Phenotypic Screens. <i>North American Journal of Fisheries Management</i> , 2009 , 29, 975-984	1.1	10
31	The synergistic toxicity of pesticide mixtures: implications for risk assessment and the conservation of endangered Pacific salmon. <i>Environmental Health Perspectives</i> , 2009 , 117, 348-53	8.4	230
30	Fish embryos are damaged by dissolved PAHs, not oil particles. <i>Aquatic Toxicology</i> , 2008 , 88, 121-7	5.1	214
29	Chemosensory deprivation in juvenile coho salmon exposed to dissolved copper under varying water chemistry conditions. <i>Environmental Science & Technology</i> , 2008 , 42, 1352-8	10.3	86
28	A sensory system at the interface between urban stormwater runoff and salmon survival. <i>Environmental Science & Technology</i> , 2007 , 41, 2998-3004	10.3	142
27	Neural defects and cardiac arrhythmia in fish larvae following embryonic exposure to 2,2,4,4-tetrabromodiphenyl ether (PBDE 47). <i>Aquatic Toxicology</i> , 2007 , 82, 296-307	5.1	180
26	Behavioral impairment and increased predation mortality in cutthroat trout exposed to carbaryl. <i>Marine Ecology - Progress Series</i> , 2007 , 329, 1-11	2.6	27
25	Developmental toxicity of 4-ring polycyclic aromatic hydrocarbons in zebrafish is differentially dependent on AH receptor isoforms and hepatic cytochrome P4501A metabolism. <i>Toxicology and Applied Pharmacology</i> , 2006 , 217, 308-21	4.6	242
24	The developmental neurotoxicity of fipronil: notochord degeneration and locomotor defects in zebrafish embryos and larvae. <i>Toxicological Sciences</i> , 2006 , 92, 270-8	4.4	143

23	Dose-additive inhibition of chinook salmon acetylcholinesterase activity by mixtures of organophosphate and carbamate insecticides. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 1200-7	3.8	42
22	Dissolved copper triggers cell death in the peripheral mechanosensory system of larval fish. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 597-603	3.8	89
21	The Extension of Molecular and Computational Information to Risk Assessment and Regulatory Decision Making* 2006 , 151-180		1
20	Comparative thresholds for acetylcholinesterase inhibition and behavioral impairment in coho salmon exposed to chlorpyrifos. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 136-45	3.8	169
19	Dissolved saxitoxin causes transient inhibition of sensorimotor function in larval Pacific herring (<i>Clupea harengus pallasii</i>). <i>Marine Biology</i> , 2005 , 147, 1393-1402	2.5	45
18	Aryl hydrocarbon receptor-independent toxicity of weathered crude oil during fish development. <i>Environmental Health Perspectives</i> , 2005 , 113, 1755-62	8.4	290
17	The electro-olfactogram 2005 ,		3
16	Defects in cardiac function precede morphological abnormalities in fish embryos exposed to polycyclic aromatic hydrocarbons. <i>Toxicology and Applied Pharmacology</i> , 2004 , 196, 191-205	4.6	611
15	Odor-evoked field potentials as indicators of sublethal neurotoxicity in juvenile coho salmon (<i>Oncorhynchus kisutch</i>) exposed to copper, chlorpyrifos, or esfenvalerate. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2004 , 61, 404-413	2.4	85
14	Morphological abnormalities and sensorimotor deficits in larval fish exposed to dissolved saxitoxin. <i>Aquatic Toxicology</i> , 2004 , 66, 159-70	5.1	84
13	Sublethal effects of copper on coho salmon: impacts on nonoverlapping receptor pathways in the peripheral olfactory nervous system. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 2266-74	3.8	129
12	Expression of nitric oxide synthase and nitric oxide-sensitive guanylate cyclase in the crustacean cardiac ganglion. <i>Journal of Comparative Neurology</i> , 2002 , 454, 158-67	3.4	33
11	NO/cGMP Signaling and the Flexible Organization of Motor Behavior in Crustaceans1. <i>American Zoologist</i> , 2001 , 41, 292-303		5
10	NO/cGMP Signaling and the Flexible Organization of Motor Behavior in Crustaceans. <i>American Zoologist</i> , 2001 , 41, 292-303		6
9	Neural network partitioning by NO and cGMP. <i>Journal of Neuroscience</i> , 2001 , 21, 1610-8	6.6	43
8	Chapter XI Invertebrate models for studying NO-mediated signaling. <i>Handbook of Chemical Neuroanatomy</i> , 2000 , 17, 417-441		11
7	Molecular underpinnings of motor pattern generation: differential targeting of shal and shaker in the pyloric motor system. <i>Journal of Neuroscience</i> , 2000 , 20, 6619-30	6.6	49
6	Diazinon disrupts antipredator and homing behaviors in chinook salmon (<i>Oncorhynchus tshawytscha</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000 , 57, 1911-1918	2.4	162

5	The NO/cGMP pathway and the development of neural networks in postembryonic lobsters. <i>Journal of Neurobiology</i> , 1998 , 34, 208-26		80
4	Identification of nitric oxide-sensitive and -insensitive forms of cytoplasmic guanylate cyclase. <i>Journal of Neurochemistry</i> , 1997 , 69, 1650-60	6	20
3	Nitric oxide and peptide neurohormones activate cGMP synthesis in the crab stomatogastric nervous system. <i>Journal of Neuroscience</i> , 1996 , 16, 1614-22	6.6	37
2	Chemical orientation of lobsters, homarus americanus, in turbulent odor plumes. <i>Journal of Chemical Ecology</i> , 1991 , 17, 1293-307	2.7	127
1	Chemical pollution149-177		2