Michael J Carvan

List of Publications by Year
in descending order

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48 papers	2,157 citations	24 h-index	46 g-index
48 all docs	48 docs citations	48 times ranked	2796 citing authors

257450

223800

#	Article	IF	Citations
1	Wild Sex in Zebrafish: Loss of the Natural Sex Determinant in Domesticated Strains. Genetics, 2014, 198, 1291-1308.	2.9	282
2	Ethanol effects on the developing zebrafish: neurobehavior and skeletal morphogenesis. Neurotoxicology and Teratology, 2004, 26, 757-768.	2.4	232
3	Fluorescence-based detection of thiols in vitro and in vivo using dithiol probes. Analytical Biochemistry, 2006, 352, 265-273.	2.4	145
4	Strain-dependent effects of developmental ethanol exposure in zebrafish. Neurotoxicology and Teratology, 2004, 26, 745-755.	2.4	128
5	Absence of Fractionation of Mercury Isotopes during Trophic Transfer of Methylmercury to Freshwater Fish in Captivity. Environmental Science & Technology, 2012, 46, 7527-7534.	10.0	121
6	Mercury-induced epigenetic transgenerational inheritance of abnormal neurobehavior is correlated with sperm epimutations in zebrafish. PLoS ONE, 2017, 12, e0176155.	2.5	104
7	Transgenic Zebrafish as Sentinels for Aquatic Pollution. Annals of the New York Academy of Sciences, 2000, 919, 133-147.	3.8	93
8	Inhibition of Follicular Development, Vitellogenesis, and Serum 17Î²-Estradiol Concentrations in Zebrafish Following Chronic, Sublethal Dietary Exposure to 2,3,7,8-Tetrachlorodibenzo-p-Dioxin. Toxicological Sciences, 2006, 90, 490-499.	3.1	72
9	Gene Expression Changes Related to Endocrine Function and Decline in Reproduction in Fathead Minnow (Pimephales promelas) after Dietary Methylmercury Exposure. Environmental Health Perspectives, 2006, 114, 1337-1343.	6.0	68
10	Developmental selenomethionine and methylmercury exposures affect zebrafish learning. Neurotoxicology and Teratology, 2010, 32, 246-255.	2.4	60
11	Selenomethionine reduces visual deficits due to developmental methylmercury exposures. Physiology and Behavior, 2008, 93, 250-260.	2.1	59
12	Defining and modeling known adverse outcome pathways: Domoic acid and neuronal signaling as a case study. Environmental Toxicology and Chemistry, 2011, 30, 9-21.	4.3	58
13	Accumulation, Tissue Distribution, and Maternal Transfer of Dietary 2,3,7,8,-Tetrachlorodibenzo-p-Dioxin: Impacts on Reproductive Success of Zebrafish. Toxicological Sciences, 2005, 87, 497-507.	3.1	56
14	Oxidative stress in zebrafish cells: potential utility of transgenic zebrafish as a deployable sentinel for site hazard ranking. Science of the Total Environment, 2001, 274, 183-196.	8.0	54
15	Molecular targets of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) within the zebrafish ovary: Insights into TCDD-induced endocrine disruption and reproductive toxicity. Reproductive Toxicology, 2008, 25, 47-57.	2.9	52
16	â€œGeneâ€•Swap Knockâ€•inâ€•Cassette in Mice to Study Allelic Differences in Human Genes. Annals of the New York Academy of Sciences, 2000, 919, 148-170.	3.8	46
17	Activation of Transcription Factors in Zebrafish Cell Cultures by Environmental Pollutants. Archives of Biochemistry and Biophysics, 2000, 376, 320-327.	3.0	45
18	An Evolutionarily Conserved Mechanism of Calciumâ€•Dependent Neurotoxicity in a Zebrafish Model of Fetal Alcohol Spectrum Disorders. Alcoholism: Clinical and Experimental Research, 2014, 38, 1255-1265.	2.4	41

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19	Detection of Mercury in Aquatic Environments Using EPRE Reporter Zebrafish. Marine Biotechnology, 2008, 10, 750-757.	2.4	39
20	Developmental Expression of Alcohol Dehydrogenase (ADH3) in Zebrafish (Danio rerio). Biochemical and Biophysical Research Communications, 2001, 286, 1082-1086.	2.1	38
21	Effects of methylmercury on epigenetic markers in three model species: Mink, chicken and yellow perch. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2013, 157, 322-327.	2.6	32
22	Parental Whole Life Cycle Exposure to Dietary Methylmercury in Zebrafish (<i>Danio rerio</i>) Affects the Behavior of Offspring. Environmental Science & Technology, 2016, 50, 4808-4816.	10.0	32
23	Engineered Nanomaterials: An Emerging Class of Novel Endocrine Disruptors1. Biology of Reproduction, 2014, 91, 20.	2.7	28
24	Fish Models in Toxicology. Zebrafish, 2007, 4, 9-20.	1.1	27
25	Differential gene expression associated with dietary methylmercury (MeHg) exposure in rainbow trout (Oncorhynchus mykiss) and zebrafish (Danio rerio). Ecotoxicology, 2013, 22, 740-751.	2.4	22
26	The Nicotine-Evoked Locomotor Response: A Behavioral Paradigm for Toxicity Screening in Zebrafish (Danio rerio) Embryos and Eleutheroembryos Exposed to Methylmercury. PLoS ONE, 2016, 11, e0154570.	2.5	21
27	Gene expression and pathologic alterations in juvenile rainbow trout due to chronic dietary TCDD exposure. Aquatic Toxicology, 2013, 140-141, 356-368.	4.0	19
28	Meeting the Challenges of Aquatic Vertebrate Ecotoxicology. BioScience, 2008, 58, 1015-1025.	4.9	17
29	Ecogenetics: From Ecology To Health. Toxicology and Industrial Health, 1997, 13, 163-192.	1.4	15
30	Automated Analysis of Conserved Syntenies for the Zebrafish Genome. Methods in Cell Biology, 2004, 77, 255-271.	1.1	14
31	Chapter 1 The utility of zebrafish as a model for toxicological research. Biochemistry and Molecular Biology of Fishes, 2005, 6, 3-41.	0.5	14
32	Maternal methylmercury from a wild-caught walleye diet induces developmental abnormalities in zebrafish. Reproductive Toxicology, 2016, 65, 272-282.	2.9	14
33	Comparison of neurobehavioral effects of methylmercury exposure in older and younger adult zebrafish (Danio rerio). NeuroToxicology, 2012, 33, 1212-1218.	3.0	13
34	Developmental Methylmercury Exposure Affects Swimming Behavior and Foraging Efficiency of Yellow Perch (<i>Perca flavescens</i>) Larvae. ACS Omega, 2017, 2, 4870-4877.	3.5	13
35	Mitigative effects of natural and model dissolved organic matter with different functionalities on the toxicity of methylmercury in embryonic zebrafish. Environmental Pollution, 2019, 252, 616-626.	7.5	13
36	Histopathologic Alterations Associated with Global Gene Expression Due to Chronic Dietary TCDD Exposure in Juvenile Zebrafish. PLoS ONE, 2014, 9, e100910.	2.5	12

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37	Effects of aging and long-term caloric restriction on hepatic microsomal monooxygenases in female fischer 344 rats: Alterations in basal cytochrome P-450 catalytic activities. Age, 1993, 16, 1-8.	3.0	10
38	Low-dose gold nanoparticles exert subtle endocrine-modulating effects on the ovarian steroidogenic pathway<i>ex vivo</i>independent of oxidative stress. Nanotoxicology, 2014, 8, 856-866.	3.0	10
39	Understanding Genetics and Pediatric Cardiac Health. Journal of Pediatric Nursing, 2016, 31, 3-10.	1.5	8
40	Female reproductive impacts of dietary methylmercury in yellow perch (Perca flavescens) and zebrafish (Danio rerio). Chemosphere, 2018, 195, 301-311.	8.2	8
41	Altered Larval Yellow Perch Swimming Behavior Due to Methylmercury and PCB126 Detected Using Hidden Markov Chain Models. Environmental Science & Technology, 2022, 56, 3514-3523.	10.0	6
42	Ethoxyresorufin and pentoxyresorufin O-dealkylation by hepatic microsomes from female Fischer 344 rats: effects of age and diet. Mechanisms of Ageing and Development, 1994, 77, 1-11.	4.6	5
43	Neuroendocrine biochemical effects in methylmercury-exposed yellow perch. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2016, 187, 10-18.	2.6	5
44	Use of Reporter Genes and Vertebrate DNA Motifs in Transgenic Zebrafish as Sentinels for Assessing Aquatic Pollution. Environmental Health Perspectives, 2002, 110, A15.	6.0	2
45	Exploring the Impacts of Methylmercuryâ€Induced Behavioral Alterations in Larval Yellow Perch in Lake Michigan Using an Individualâ€Based Model. Transactions of the American Fisheries Society, 2020, 149, 664-680.	1.4	2
46	An Interview with Michael Carvan, Ph.D.. Zebrafish, 2004, 1, 71-76.	1.1	1
47	Neurobehavioral Analysis Methods for Adverse Outcome Pathway (AOP) Models and Risk Assessment. , 2018, , 149-175.		1
48	Zebrafish as a Model for Methylmercury Neurotoxicity. , 2012, , 335-355.		0