Lisa Truong

List of Publications by Year in descending order

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94 papers	3,611 citations	147786 31 h-index	144002 57 g-index
98 all docs	98 docs citations	98 times ranked	4653 citing authors

#	Article	IF	Citations
1	Sulfidation of Silver Nanoparticles: Natural Antidote to Their Toxicity. Environmental Science & Technology, 2013, 47, 13440-13448.	10.0	364
2	Multidimensional In Vivo Hazard Assessment Using Zebrafish. Toxicological Sciences, 2014, 137, 212-233.	3.1	256
3	Evaluation of Embryotoxicity Using the Zebrafish Model. Methods in Molecular Biology, 2011, 691, 271-279.	0.9	189
4	Comparative developmental toxicity of environmentally relevant oxygenated PAHs. Toxicology and Applied Pharmacology, 2013, 271, 266-275.	2.8	164
5	Automated Zebrafish Chorion Removal and Single Embryo Placement: Optimizing Throughput of Zebrafish Developmental Toxicity Screens. Journal of the Association for Laboratory Automation, 2012, 17, 66-74.	2.8	151
6	Comparative developmental toxicity of a comprehensive suite of polycyclic aromatic hydrocarbons. Archives of Toxicology, 2018, 92, 571-586.	4.2	120
7	High-throughput characterization of chemical-associated embryonic behavioral changes predicts teratogenic outcomes. Archives of Toxicology, 2016, 90, 1459-1470.	4.2	117
8	Transgenerational inheritance of neurobehavioral and physiological deficits from developmental exposure to benzo[a]pyrene in zebrafish. Toxicology and Applied Pharmacology, 2017, 329, 148-157.	2.8	101
9	Persistent adult zebrafish behavioral deficits results from acute embryonic exposure to gold nanoparticles. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2012, 155, 269-274.	2.6	91
10	Investigating Alternatives to the fish earlyâ€life stage test: A strategy for discovering and annotating adverse outcome pathways for early fish development. Environmental Toxicology and Chemistry, 2014, 33, 158-169.	4.3	90
11	Silver nanoparticle toxicity in the embryonic zebrafish is governed by particle dispersion and ionic environment. Nanotechnology, 2013, 24, 115101.	2.6	80
12	Developmental benzo[a]pyrene (B[a]P) exposure impacts larval behavior and impairs adult learning in zebrafish. Neurotoxicology and Teratology, 2017, 59, 27-34.	2.4	74
13	Synergistic Toxicity Produced by Mixtures of Biocompatible Gold Nanoparticles and Widely Used Surfactants. ACS Nano, 2018, 12, 5312-5322.	14.6	70
14	Zebrafish embryo toxicity of 15 chlorinated, brominated, and iodinated disinfection by-products. Journal of Environmental Sciences, 2017, 58, 302-310.	6.1	65
15	Systematic developmental neurotoxicity assessment of a representative PAH Superfund mixture using zebrafish. Toxicology and Applied Pharmacology, 2018, 354, 115-125.	2.8	65
16	Surface functionalities of gold nanoparticles impact embryonic gene expression responses. Nanotoxicology, 2013, 7, 192-201.	3.0	64
17	Predation by zooplankton on Batrachochytrium dendrobatidis: biological control of the deadly amphibian chytrid fungus?. Biodiversity and Conservation, 2011, 20, 3549-3553.	2.6	60
18	Differential stability of lead sulfide nanoparticles influences biological responses in embryonic zebrafish. Archives of Toxicology, 2011, 85, 787-798.	4.2	58

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19	Identification and Toxicological Evaluation of Unsubstituted PAHs and Novel PAH Derivatives in Pavement Sealcoat Products. Environmental Science and Technology Letters, 2016, 3, 234-242.	8.7	53
20	Media ionic strength impacts embryonic responses to engineered nanoparticle exposure. Nanotoxicology, 2012, 6, 691-699.	3.0	52
21	Trade-offs in ecosystem impacts from nanomaterial versus organic chemical ultraviolet filters in sunscreens. Water Research, 2018, 139, 281-290.	11.3	52
22	Assessment of the developmental and neurotoxicity of the mosquito control larvicide, pyriproxyfen, using embryonic zebrafish. Environmental Pollution, 2016, 218, 1089-1093.	7.5	48
23	Optimizing multi-dimensional high throughput screening using zebrafish. Reproductive Toxicology, 2016, 65, 139-147.	2.9	47
24	A multidisciplinary investigation of the technical and environmental performances of TAML/peroxide elimination of Bisphenol A compounds from water. Green Chemistry, 2017, 19, 4234-4262.	9.0	46
25	Chronic vitamin E deficiency impairs cognitive function in adult zebrafish via dysregulation of brain lipids and energy metabolism. Free Radical Biology and Medicine, 2017, 112, 308-317.	2.9	45
26	A rapid throughput approach identifies cognitive deficits in adult zebrafish from developmental exposure to polybrominated flame retardants. NeuroToxicology, 2014, 43, 134-142.	3.0	43
27	AHR2 required for normal behavioral responses and proper development of the skeletal and reproductive systems in zebrafish. PLoS ONE, 2018, 13, e0193484.	2.5	40
28	Mechanistic Investigations Into the Developmental Toxicity of Nitrated and Heterocyclic PAHs. Toxicological Sciences, 2017, 157, 246-259.	3.1	39
29	Coupling Genome-wide Transcriptomics and Developmental Toxicity Profiles in Zebrafish to Characterize Polycyclic Aromatic Hydrocarbon (PAH) Hazard. International Journal of Molecular Sciences, 2019, 20, 2570.	4.1	39
30	Comparative Analysis of Zebrafish and Planarian Model Systems for Developmental Neurotoxicity Screens Using an 87-Compound Library. Toxicological Sciences, 2019, 167, 15-25.	3.1	37
31	Formation of PAH Derivatives and Increased Developmental Toxicity during Steam Enhanced Extraction Remediation of Creosote Contaminated Superfund Soil. Environmental Science & Technology, 2019, 53, 4460-4469.	10.0	35
32	Population genetic diversity in zebrafish lines. Mammalian Genome, 2018, 29, 90-100.	2.2	34
33	Behavior Effects of Structurally Diverse Per- and Polyfluoroalkyl Substances in Zebrafish. Chemical Research in Toxicology, 2021, 34, 1409-1416.	3.3	33
34	Mutagenicity assessment downstream of oil and gas produced water discharges intended for agricultural beneficial reuse. Science of the Total Environment, 2020, 715, 136944.	8.0	33
35	Formation of Developmentally Toxic Phenanthrene Metabolite Mixtures by Mycobacterium sp. ELW1. Environmental Science & Technology, 2017, 51, 8569-8578.	10.0	31
36	Vitamin E deficiency during embryogenesis in zebrafish causes lasting metabolic and cognitive impairments despite refeeding adequate diets. Free Radical Biology and Medicine, 2017, 110, 250-260.	2.9	31

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37	Combinatorial effects of zinc deficiency and arsenic exposure on zebrafish (Danio rerio) development. PLoS ONE, 2017, 12, e0183831.	2.5	31
38	Signaling Events Downstream of AHR Activation That Contribute to Toxic Responses: The Functional Role of an AHR-Dependent Long Noncoding RNA (slincR) Using the Zebrafish Model. Environmental Health Perspectives, 2018, 126, 117002.	6.0	28
39	Adverse effects of parental zinc deficiency on metal homeostasis and embryonic development in a zebrafish model. Journal of Nutritional Biochemistry, 2017, 43, 78-87.	4.2	27
40	Systematic developmental toxicity assessment of a structurally diverse library of PFAS in zebrafish. Journal of Hazardous Materials, 2022, 431, 128615.	12.4	26
41	Zebrafish assays as developmental toxicity indicators in the green design of TAML oxidation catalysts. Green Chemistry, 2013, 15, 2339.	9.0	25
42	Lipidomics and H218O labeling techniques reveal increased remodeling of DHA-containing membrane phospholipids associated with abnormal locomotor responses in Î±-tocopherol deficient zebrafish (danio rerio) embryos. Redox Biology, 2016, 8, 165-174.	9.0	25
43	Rapid well-plate assays for motor and social behaviors in larval zebrafish. Behavioural Brain Research, 2020, 391, 112625.	2.2	24
44	Leveraging high-throughput screening data, deep neural networks, and conditional generative adversarial networks to advance predictive toxicology. PLoS Computational Biology, 2021, 17, e1009135.	3.2	23
45	A New Statistical Approach to Characterize Chemical-Elicited Behavioral Effects in High-Throughput Studies Using Zebrafish. PLoS ONE, 2017, 12, e0169408.	2.5	23
46	Elucidating Gene-by-Environment Interactions Associated with Differential Susceptibility to Chemical Exposure. Environmental Health Perspectives, 2018, 126, 067010.	6.0	21
47	Systematic determination of the relationship between nanoparticle core diameter and toxicity for a series of structurally analogous gold nanoparticles in zebrafish. Nanotoxicology, 2019, 13, 879-893.	3.0	20
48	Sulfonamide functional head on short-chain perfluorinated substance drives developmental toxicity. IScience, 2022, 25, 103789.	4.1	20
49	Developmental toxicity in zebrafish (Danio rerio) exposed to uranium: A comparison with lead, cadmium, and iron. Environmental Pollution, 2021, 269, 116097.	7.5	19
50	Evaluation of Embryotoxicity Using the Zebrafish Model. Methods in Molecular Biology, 2017, 1641, 325-333.	0.9	19
51	Preparation of water soluble carbon nanotubes and assessment of their biological activity in embryonic zebrafish. International Journal of Biomedical Nanoscience and Nanotechnology, 2013, 3, 38.	0.1	18
52	The influences of parental diet and vitamin E intake on the embryonic zebrafish transcriptome. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2014, 10, 22-29.	1.0	18
53	Zinc oxide-induced changes to sunscreen ingredient efficacy and toxicity under UV irradiation. Photochemical and Photobiological Sciences, 2021, 20, 1273-1285.	2.9	18
54	The multi-dimensional embryonic zebrafish platform predicts flame retardant bioactivity. Reproductive Toxicology, 2020, 96, 359-369.	2.9	17

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55	Developmental titanium dioxide nanoparticle exposure induces oxidative stress and neurobehavioral changes in zebrafish. Aquatic Toxicology, 2021, 240, 105990.	4.0	17
56	Assessing the hazard of E-Cigarette flavor mixtures using zebrafish. Food and Chemical Toxicology, 2020, 136, 110945.	3.6	15
57	Impacts of high dose 3.5 GHz cellphone radiofrequency on zebrafish embryonic development. PLoS ONE, 2020, 15, e0235869.	2.5	15
58	Nitrate and nitrite exposure leads to mild anxiogenic-like behavior and alters brain metabolomic profile in zebrafish. PLoS ONE, 2020, 15, e0240070.	2.5	15
59	Treatment with Nitrate, but Not Nitrite, Lowers the Oxygen Cost of Exercise and Decreases Glycolytic Intermediates While Increasing Fatty Acid Metabolites in Exercised Zebrafish. Journal of Nutrition, 2019, 149, 2120-2132.	2.9	14
60	Identification of a Raloxifene Analog That Promotes AhR-Mediated Apoptosis in Cancer Cells. Biology, 2017, 6, 41.	2.8	13
61	Early life stage trimethyltin exposure induces ADP-ribosylation factor expression and perturbs the vascular system in zebrafish. Toxicology, 2012, 302, 129-139.	4.2	11
62	Aggregate entropy scoring for quantifying activity across endpoints with irregular correlation structure. Reproductive Toxicology, 2016, 62, 92-99.	2.9	11
63	Investigating the application of a nitroreductase-expressing transgenic zebrafish line for high-throughput toxicity testing. Toxicology Reports, 2017, 4, 202-210.	3.3	11
64	Predicting in vivo effect levels for repeat-dose systemic toxicity using chemical, biological, kinetic and study covariates. Archives of Toxicology, 2018, 92, 587-600.	4.2	11
65	Combined Danio rerio embryo morbidity, mortality and photomotor response assay: A tool for developmental risk assessment from chronic cyanoHAB exposure. Science of the Total Environment, 2019, 697, 134210.	8.0	11
66	Systematic Assessment of Exposure Variations on Observed Bioactivity in Zebrafish Chemical Screening. Toxics, 2020, 8, 87.	3.7	11
67	A data-driven weighting scheme for multivariate phenotypic endpoints recapitulates zebrafish developmental cascades. Toxicology and Applied Pharmacology, 2017, 314, 109-117.	2.8	10
68	Morphological and Behavioral Effects in Zebrafish Embryos after Exposure to Smoke Dyes. Toxics, 2021, 9, 9.	3.7	9
69	Phenotypically Anchored mRNA and miRNA Expression Profiling in Zebrafish Reveals Flame Retardant Chemical Toxicity Networks. Frontiers in Cell and Developmental Biology, 2021, 9, 663032.	3.7	9
70	Identification and Toxicological Evaluation of Unsubstituted PAHs and Novel PAH Derivatives in Pavement Sealcoat Products. Environmental Science and Technology Letters, 2016, 3, 234-242.	8.7	9
71	Better, Faster, Cheaper: Getting the Most Out of High-Throughput Screening with Zebrafish. Methods in Molecular Biology, 2016, 1473, 89-98.	0.9	8
72	Multivariate modeling of engineered nanomaterial features associated with developmental toxicity. NanoImpact, 2019, 16, 100185.	4.5	8

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73	Time-dependent behavioral data from zebrafish reveals novel signatures of chemical toxicity using point of departure analysis. Computational Toxicology, 2019, 9, 50-60.	3.3	8
74	Profiling 58 compounds including cosmetic-relevant chemicals using ToxRefDB and ToxCast. Food and Chemical Toxicology, 2019, 132, 110718.	3.6	7
75	Glucocorticoid receptor-dependent induction of cripto-1 (one-eyed pinhead) inhibits zebrafish caudal fin regeneration. Toxicology Reports, 2019, 6, 529-537.	3.3	7
76	Developing and interpreting aqueous functional assays for comparative property-activity relationships of different nanoparticles. Science of the Total Environment, 2018, 628-629, 1609-1616.	8.0	6
77	Developmental Hazard of Environmentally Persistent Free Radicals and Protective Effect of TEMPOL in Zebrafish Model. Toxics, 2021, 9, 12.	3.7	6
78	Transcriptomic and Long-Term Behavioral Deficits Associated with Developmental 3.5 GHz Radiofrequency Radiation Exposures in Zebrafish. Environmental Science and Technology Letters, 2022, 9, 327-332.	8.7	6
79	Dietary Perfluorohexanoic Acid (PFHxA) Exposures in Juvenile Zebrafish Produce Subtle Behavioral Effects across Generations. Toxics, 2022, 10, 372.	3.7	6
80	Residual weakly bound ligands influence biological compatibility of mixed ligand shell, thiol-stabilized gold nanoparticles. Environmental Science: Nano, 2017, 4, 1634-1646.	4.3	4
81	Implementation of Zebrafish Ontologies for Toxicology Screening. Frontiers in Toxicology, 2022, 4, 817999.	3.1	4
82	Determination of narcotic potency using a neurobehavioral assay with larval zebrafish. NeuroToxicology, 2019, 74, 67-73.	3.0	3
83	Uncovering Evidence for Endocrine-Disrupting Chemicals That Elicit Differential Susceptibility through Gene-Environment Interactions. Toxics, 2021, 9, 77.	3.7	3
84	Concurrent Evaluation of Mortality and Behavioral Responses: A Fast and Efficient Testing Approach for High-Throughput Chemical Hazard Identification. Frontiers in Toxicology, 2021, 3, 670496.	3.1	3
85	Size- and Oxidation-Dependent Toxicity of Graphene Oxide Nanomaterials in Embryonic Zebrafish. Nanomaterials, 2022, 12, 1050.	4.1	3
86	Response to Correspondence on Identification and Toxicological Evaluation of Unsubstituted PAHs and Novel PAH Derivatives in Pavement Sealcoat Products. Environmental Science and Technology Letters, 2016, 3, 406-408.	8.7	2
87	Nitrate-induced improvements in exercise performance are coincident with exuberant changes in metabolic genes and the metabolome in zebrafish (Danio rerio) skeletal muscle. Journal of Applied Physiology, 2021, 131, 142-157.	2.5	2
88	Rapid In Vivo Assessment of the Nano/Bio Interface. , 2013, , .		2
89	Integrating Morphological and Behavioral Phenotypes in Developing Zebrafish. , 2017, , 259-272.		2
90	Developmental, Behavioral and Transcriptomic Changes in Zebrafish Embryos after Smoke Dye Exposure. Toxics, 2022, 10, 210.	3.7	2

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91	Optimizing in vivo Assessment of Nano/bio Interactions to Guide Safer Material Design. Materials Research Society Symposia Proceedings, 2011, 1317, 1.	0.1	1
92	Leveraging a High-Throughput Screening Method to Identify Mechanisms of Individual Susceptibility Differences in a Genetically Diverse Zebrafish Model. Frontiers in Toxicology, 2022, 4, 846221.	3.1	1
93	Nitrate exposure reprograms hepatic amino acid and nutrient sensing pathways prior to exercise: A metabolomic and transcriptomic investigation in zebrafish (Danio rerio). Frontiers in Molecular Biosciences, 0, 9, .	3.5	1
94	Nitrate and Nitrite Treatment Affect Zebrafish Behavior and Brain Metabolomic Profile. Current Developments in Nutrition, 2020, 4, nzaa057_006.	0.3	0