

# Jia-Lang Zheng

## List of Publications by Year in descending order

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74  
papers

2,275  
citations

185998

28  
h-index

243296

44  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acute exposure to waterborne cadmium induced oxidative stress and immunotoxicity in the brain, ovary and liver of zebrafish ( <i>Danio rerio</i> ). <i>Aquatic Toxicology</i> , 2016, 180, 36-44.	1.9	147
2	Quantitative dietary zinc requirement of juvenile yellow catfish <i>Pelteobagrus fulvidraco</i> , and effects on hepatic intermediary metabolism and antioxidant responses. <i>Aquaculture</i> , 2011, 319, 150-155.	1.7	121
3	Molecular cloning and expression pattern of 11 genes involved in lipid metabolism in yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Gene</i> , 2013, 531, 53-63.	1.0	97
4	Differential effects of acute and chronic zinc (Zn) exposure on hepatic lipid deposition and metabolism in yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Aquatic Toxicology</i> , 2013, 132-133, 173-181.	1.9	90
5	Chronic waterborne zinc and cadmium exposures induced different responses towards oxidative stress in the liver of zebrafish. <i>Aquatic Toxicology</i> , 2016, 177, 261-268.	1.9	90
6	Effects of Waterborne Chronic Copper Exposure on Hepatic Lipid Metabolism and Metal-Element Composition in <i>Synechogobius hasta</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2013, 64, 301-315.	2.1	85
7	Antioxidant defenses at transcriptional and enzymatic levels and gene expression of Nrf2-Keap1 signaling molecules in response to acute zinc exposure in the spleen of the large yellow croaker <i>Pseudosciaena crocea</i> . <i>Fish and Shellfish Immunology</i> , 2016, 52, 1-8.	1.6	83
8	Differential effect of waterborne cadmium exposure on lipid metabolism in liver and muscle of yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Aquatic Toxicology</i> , 2013, 142-143, 380-386.	1.9	78
9	Dietary L-carnitine supplementation increases lipid deposition in the liver and muscle of yellow catfish ( <i>Pelteobagrus fulvidraco</i> ) through changes in lipid metabolism. <i>British Journal of Nutrition</i> , 2014, 112, 698-708.	1.2	53
10	Effects of heat and cadmium exposure on stress-related responses in the liver of female zebrafish: Heat increases cadmium toxicity. <i>Science of the Total Environment</i> , 2018, 618, 1363-1370.	3.9	51
11	Transcriptional and physiological responses of <i>Dunaliella salina</i> to cadmium reveals time-dependent turnover of ribosome, photosystem, and ROS-scavenging pathways. <i>Aquatic Toxicology</i> , 2019, 207, 153-162.	1.9	50
12	Life-cycle exposure to cadmium induced compensatory responses towards oxidative stress in the liver of female zebrafish. <i>Chemosphere</i> , 2018, 210, 949-957.	4.2	49
13	Effects of $\beta$ -glucan on ROS production and energy metabolism in yellow croaker ( <i>Pseudosciaena</i> ) Tj ETQq1 1 0.784314 rgBT /Overloc 0,9 48		
14	Characterization and tissue distribution of leptin, leptin receptor and leptin receptor overlapping transcript genes in yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>General and Comparative Endocrinology</i> , 2013, 182, 1-6.	0.8	47
15	Negative effects of acute cadmium on stress defense, immunity, and metal homeostasis in liver of zebrafish: The protective role of environmental zinc dpre-exposure. <i>Chemosphere</i> , 2019, 222, 91-97.	4.2	47
16	The role of Nrf2/Keap1 signaling in inorganic mercury induced oxidative stress in the liver of large yellow croaker <i>Pseudosciaena crocea</i> . <i>Ecotoxicology and Environmental Safety</i> , 2016, 132, 345-352.	2.9	45
17	Effects of starvation on lipid accumulation and antioxidant response in the right and left lobes of liver in large yellow croaker <i>Pseudosciaena crocea</i> . <i>Ecological Indicators</i> , 2016, 66, 269-274.	2.6	45
18	Molecular characterization, tissue distribution and kinetic analysis of carnitine palmitoyltransferase I in juvenile yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Genomics</i> , 2013, 101, 195-203.	1.3	44

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19	Zinc acclimation mitigated high zinc induced oxidative stress by enhancing antioxidant defenses in large yellow croaker <i>Pseudosciaena crocea</i> . <i>Aquatic Toxicology</i> , 2016, 172, 21-29.	1.9	44
20	Negative effect of chronic cadmium exposure on growth, histology, ultrastructure, antioxidant and innate immune responses in the liver of zebrafish: Preventive role of blue light emitting diodes. <i>Ecotoxicology and Environmental Safety</i> , 2017, 139, 18-26.	2.9	43
21	Circadian time-dependent antioxidant and inflammatory responses to acute cadmium exposure in the brain of zebrafish. <i>Aquatic Toxicology</i> , 2017, 182, 113-119.	1.9	43
22	Combined effects of polystyrene microplastics and cadmium on oxidative stress, apoptosis, and GH/IGF axis in zebrafish early life stages. <i>Science of the Total Environment</i> , 2022, 813, 152514.	3.9	42
23	Regulation of insulin on lipid metabolism in freshly isolated hepatocytes from yellow catfish ( <i>Pelteobagrus fulvidraco</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2014, 177-178, 21-28.	0.7	41
24	Immunosuppressive effects and associated compensatory responses in zebrafish after full life-cycle exposure to environmentally relevant concentrations of cadmium. <i>Aquatic Toxicology</i> , 2017, 188, 64-71.	1.9	38
25	Exogenous proline reduces NaCl-induced damage by mediating ionic and osmotic adjustment and enhancing antioxidant defense in <i>Eurya emarginata</i> . <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	36
26	Particles rather than released Zn <sup>2+</sup> from ZnO nanoparticles aggravate microplastics toxicity in early stages of exposed zebrafish and their unexposed offspring. <i>Journal of Hazardous Materials</i> , 2022, 424, 127589.	6.5	34
27	Differential induction of enzymes and genes involved in lipid metabolism in liver and visceral adipose tissue of juvenile yellow catfish <i>Pelteobagrus fulvidraco</i> exposed to copper. <i>Aquatic Toxicology</i> , 2013, 136-137, 72-78.	1.9	28
28	In vitro exposure to copper influences lipid metabolism in hepatocytes from grass carp ( <i>Ctenopharyngodon idellus</i> ). <i>Fish Physiology and Biochemistry</i> , 2014, 40, 595-605.	0.9	28
29	Molecular characterization and expression analyses of three RIG-I-like receptor signaling pathway genes (MDA5, LGP2 and MAVS) in <i>Larimichthys crocea</i> . <i>Fish and Shellfish Immunology</i> , 2016, 55, 535-549.	1.6	28
30	Purification and characterization of glucose 6-phosphate dehydrogenase (G6PD) from grass carp ( <i>Ctenopharyngodon idella</i> ) and inhibition effects of several metal ions on G6PD activity in vitro. <i>Fish Physiology and Biochemistry</i> , 2013, 39, 637-647.	0.9	27
31	Different effects of dietary Zn deficiency and excess on lipid metabolism in yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Aquaculture</i> , 2015, 435, 10-17.	1.7	27
32	The lagged effects of environmentally relevant zinc on non-specific immunity in zebrafish. <i>Chemosphere</i> , 2019, 214, 85-93.	4.2	27
33	Molecular cloning and tissue mRNA levels of 15 genes involved in lipid metabolism in <i>Synechogobius hasta</i> . <i>European Journal of Lipid Science and Technology</i> , 2015, 117, 471-482.	1.0	24
34	Different effect of dietborne and waterborne Zn exposure on lipid deposition and metabolism in juvenile yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Aquatic Toxicology</i> , 2015, 159, 90-98.	1.9	23
35	Peroxisome proliferator-activated receptor gamma (PPAR $\gamma$ ) in yellow catfish <i>Pelteobagrus fulvidraco</i> : Molecular characterization, mRNA expression and transcriptional regulation by insulin in vivo and in vitro. <i>General and Comparative Endocrinology</i> , 2015, 212, 51-62.	0.8	21
36	Different effects of low- and high-dose waterborne zinc on Zn accumulation, ROS levels, oxidative damage and antioxidant responses in the liver of large yellow croaker <i>Pseudosciaena crocea</i> . <i>Fish Physiology and Biochemistry</i> , 2017, 43, 153-163.	0.9	20

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37	Heat-induced oxidative stress and inflammation involve in cadmium pollution history in the spleen of zebrafish. <i>Fish and Shellfish Immunology</i> , 2018, 72, 1-8.	1.6	20
38	Preheating mitigates cadmium toxicity in zebrafish livers: Evidence from promoter demethylation, gene transcription to biochemical levels. <i>Aquatic Toxicology</i> , 2017, 190, 104-111.	1.9	19
39	Heat indicators of oxidative stress, inflammation and metal transport show dependence of cadmium pollution history in the liver of female zebrafish. <i>Aquatic Toxicology</i> , 2017, 191, 1-9.	1.9	19
40	Positive and negative innate immune responses in zebrafish under light emitting diodes conditions. <i>Fish and Shellfish Immunology</i> , 2016, 56, 382-387.	1.6	18
41	High salinity acclimatization alleviated cadmium toxicity in <i>Dunaliella salina</i> : Transcriptomic and physiological evidence. <i>Aquatic Toxicology</i> , 2020, 223, 105492.	1.9	18
42	Differential effects of the chronic and acute zinc exposure on carnitine composition, kinetics of carnitine palmitoyltransferases I (CPT I) and mRNA levels of CPT I isoforms in yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Chemosphere</i> , 2013, 92, 616-625.	4.2	17
43	Transcription activation of $\beta$ -carotene biosynthetic genes at the initial stage of stresses as an indicator of the increased $\beta$ -carotene accumulation in isolated <i>Dunaliella salina</i> strain GY-H13. <i>Aquatic Toxicology</i> , 2020, 222, 105472.	1.9	17
44	Cadmium induced oxidative stress, endoplasmic reticulum (ER) stress and apoptosis with compensative responses towards the up-regulation of ribosome, protein processing in the ER, and protein export pathways in the liver of zebrafish. <i>Aquatic Toxicology</i> , 2022, 242, 106023.	1.9	17
45	Protective Effects of Calcium Pre-Exposure Against Waterborne Cadmium Toxicity in <i>Synechogobius hasta</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2013, 65, 105-121.	2.1	16
46	Dietary Fenofibrate Reduces Hepatic Lipid Deposition by Regulating Lipid Metabolism in Yellow Catfish <i>Pelteobagrus fulvidraco</i> Exposed to Waterborne Zn. <i>Lipids</i> , 2015, 50, 417-426.	0.7	16
47	Cu pre-exposure alters antioxidant defense and energy metabolism in large yellow croaker <i>Larimichthys crocea</i> in response to severe hypoxia. <i>Science of the Total Environment</i> , 2019, 687, 702-711.	3.9	16
48	Micro-polyethylene particles reduce the toxicity of nano zinc oxide in marine microalgae by adsorption. <i>Environmental Pollution</i> , 2021, 290, 118042.	3.7	16
49	Peroxisome proliferator-activated receptor alpha1 in yellow catfish <i>Pelteobagrus fulvidraco</i> : Molecular characterization, mRNA tissue expression and transcriptional regulation by insulin in vivo and in vitro. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015, 183, 58-66.	0.7	14
50	Effect of waterborne copper on lipid metabolism in hepatopancreas and muscle of grass carp <i>Ctenopharyngodon idella</i> . <i>Aquaculture Research</i> , 2017, 48, 1458-1468.	0.9	14
51	Waterborne zinc induced lobe-dependent effect on oxidative stress and energy metabolism in hepatopancreas of <i>Larimichthys crocea</i> . <i>Aquatic Toxicology</i> , 2019, 215, 105270.	1.9	14
52	Effects of continuous and intermittent cadmium exposure on HPGL axis, GH/IGF axis and circadian rhythm signaling and their consequences on reproduction in female zebrafish: Biomarkers independent of exposure regimes. <i>Chemosphere</i> , 2021, 282, 130879.	4.2	13
53	Differential effects of dietary Zn deficiency and excess on carnitine status, kinetics and expression of CPT I in yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Aquaculture</i> , 2014, 420-421, 10-17.	1.7	12
54	<i>Larimichthys crocea</i> is a suitable bioindicator for monitoring short-term Cd discharge along the coast: An experimental study. <i>Environmental Pollution</i> , 2020, 259, 113849.	3.7	12

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55	Carnitine palmitoyltransferase I gene in <i>Synechogobius hasta</i> : Cloning, mRNA expression and transcriptional regulation by insulin in vitro. <i>Gene</i> , 2016, 576, 429-440.	1.0	11
56	Pre-acclimation to low copper mitigated immunotoxic effects in spleen and head-kidney of large yellow croaker ( <i>Pseudosciaena crocea</i> ) when exposed subsequently to high copper. <i>Ecotoxicology and Environmental Safety</i> , 2017, 144, 54-61.	2.9	11
57	Molecular cloning and mRNA tissue expression of thyroid hormone receptors in yellow catfish <i>Pelteobagrus fulvidraco</i> and Javelin goby <i>Synechogobius hasta</i> . <i>Gene</i> , 2014, 536, 232-237.	1.0	10
58	Effects of waterborne copper exposure on carnitine composition, kinetics of carnitine palmitoyltransferases I (CPT I) and mRNA levels of CPT I isoforms in yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Chemosphere</i> , 2015, 139, 349-357.	4.2	9
59	Differential effects of dietary Cu deficiency and excess on carnitine status, kinetics and expression of CPT I in liver and muscle of yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015, 188, 24-30.	0.7	9
60	Three unsaturated fatty acid biosynthesis-related genes in yellow catfish <i>Pelteobagrus fulvidraco</i> : Molecular characterization, tissue expression and transcriptional regulation by leptin. <i>Gene</i> , 2015, 563, 1-9.	1.0	9
61	Different effects of blue and red light-emitting diodes on antioxidant responses in the liver and ovary of zebrafish <i>Danio rerio</i> . <i>Fish Physiology and Biochemistry</i> , 2017, 43, 411-419.	0.9	9
62	Differential effects of acute and chronic zinc exposure on lipid metabolism in three extrahepatic tissues of juvenile yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Fish Physiology and Biochemistry</i> , 2014, 40, 1349-1359.	0.9	8
63	Organ-specific effects of low-dose zinc pre-exposure on high-dose zinc induced mitochondrial dysfunction in large yellow croaker <i>Pseudosciaena crocea</i> . <i>Fish Physiology and Biochemistry</i> , 2017, 43, 653-661.	0.9	8
64	Nutritional-status dependent effects of microplastics on activity and expression of alkaline phosphatase and alpha-amylase in <i>Brachionus rotundiformis</i> . <i>Science of the Total Environment</i> , 2022, 806, 150213.	3.9	8
65	Genome-wide identification of seven superoxide dismutase genes in the marine rotifer <i>Brachionus rotundiformis</i> and modulated expression and enzymatic activity in response to microplastics and nutritional status. <i>Aquatic Toxicology</i> , 2022, 243, 106055.	1.9	8
66	Transgenerational effects of zinc in zebrafish following early life stage exposure. <i>Science of the Total Environment</i> , 2022, 828, 154443.	3.9	8
67	A functional gene encoding carnitine palmitoyltransferase 1 and its transcriptional and kinetic regulation during fasting in large yellow croaker. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2019, 231, 26-33.	0.7	7
68	Effects of salinity on activity and expression of enzymes involved in ionic, osmotic, and antioxidant responses in <i>Eurya emarginata</i> . <i>Acta Physiologica Plantarum</i> , 2016, 38, 1.	1.0	6
69	Kinetics of Carnitine Palmitoyltransferase I (CPT I) in Chinese sucker ( <i>Myxocyprinus asiaticus</i> ) Change with its Development. <i>Lipids</i> , 2014, 49, 173-181.	0.7	5
70	In Vitro Effects of Selenium on Copper-Induced Changes in Lipid Metabolism of Grass Carp ( <i>Ctenopharyngodon idellus</i> ) Hepatocytes. <i>Archives of Environmental Contamination and Toxicology</i> , 2014, 67, 252-260.	2.1	5
71	Essential element Cu and non-essential element Hg exposures have different toxicological effects in the liver of large yellow croaker. <i>Marine Pollution Bulletin</i> , 2019, 139, 6-13.	2.3	5
72	Effect of waterborne zinc exposure on lipid deposition and metabolism in hepatopancreas and muscle of grass carp <i>Ctenopharyngodon idella</i> . <i>Fish Physiology and Biochemistry</i> , 2016, 42, 1093-1105.	0.9	4

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73	Purification and kinetic characteristics of hepatic 6-phosphogluconate dehydrogenase (6PGD) from yellow catfish <i>Pelteobagrus fulvidraco</i> . <i>Turkish Journal of Biochemistry</i> , 2015, 40, 15-23.	0.3	2
74	Ontogeny and kinetics of carnitine palmitoyltransferase I in hepatopancreas and skeletal muscle of grass carp ( <i>Ctenopharyngodon idella</i> ). <i>Fish Physiology and Biochemistry</i> , 2015, 41, 1393-1401.	0.9	1