De-Sheng Pei

List of Publications by Year
in descending order

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80	3,190	117571	168321
papers	citations	34 h-index	53 g-index

82	82	82	4688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Zebrafish as a model system to study toxicology. Environmental Toxicology and Chemistry, 2014, 33, 11-17.	2.2	404
2	The ALKF1174L Mutation Potentiates the Oncogenic Activity of MYCN in Neuroblastoma. Cancer Cell, 2012, 22, 117-130.	7.7	270
3	Individual and combined toxicogenetic effects of microplastics and heavy metals (Cd, Pb, and Zn) perturb gut microbiota homeostasis and gonadal development in marine medaka (Oryzias melastigma). Journal of Hazardous Materials, 2020, 397, 122795.	6.5	161
4	Nanotoxicity of different sizes of graphene (G) and graphene oxide (GO) inÂvitro and inÂvivo. Environmental Pollution, 2019, 247, 595-606.	3.7	114
5	Acute and chronic effects of polystyrene microplastics on brine shrimp: First evidence highlighting the molecular mechanism through transcriptome analysis. Journal of Hazardous Materials, 2020, 400, 123220.	6.5	100
6	The Effects of Disturbance on Hypothalamus-Pituitary-Thyroid (HPT) Axis in Zebrafish Larvae after Exposure to DEHP. PLoS ONE, 2016, 11, e0155762.	1.1	74
7	Combined toxicity of endocrine-disrupting chemicals: A review. Ecotoxicology and Environmental Safety, 2021, 215, 112136.	2.9	73
8	Zebrafish as a model system to study DNA damage and repair. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2013, 743-744, 151-159.	0.4	68
9	Antimicrobial Activity and Mechanism of Functionalized Quantum Dots. Polymers, 2019, 11, 1670.	2.0	67
10	Toxicity and oxidative stress induced by chromium in workers exposed from different occupational settings around the globe: A review. Environmental Science and Pollution Research, 2016, 23, 20151-20167.	2.7	65
11	Nitrogen-doped graphene quantum dots (N-GQDs) perturb redox-sensitive system via the selective inhibition of antioxidant enzyme activities in zebrafish. Biomaterials, 2019, 206, 61-72.	5.7	58
12	Effects of phthalate acid esters on zebrafish larvae: Development and skeletal morphogenesis. Chemosphere, 2020, 246, 125808.	4.2	56
13	Distinct Neuroblastoma-associated Alterations of PHOX2B Impair Sympathetic Neuronal Differentiation in Zebrafish Models. PLoS Genetics, 2013, 9, e1003533.	1.5	55
14	Sex dependent effects of silver nanoparticles on the zebrafish gut microbiota. Environmental Science: Nano, 2018, 5, 740-751.	2.2	55
15	Graphene oxide nanosheets induce DNA damage and activate the base excision repair (BER) signaling pathway both inÂvitro and inÂvivo. Chemosphere, 2017, 184, 795-805.	4.2	54
16	Status of indoor air pollution (IAP) through particulate matter (PM) emissions and associated health concerns in South Asia. Chemosphere, 2018, 191, 651-663.	4.2	51
17	Knock-In Strategy for Editing Human and Zebrafish Mitochondrial DNA Using Mito-CRISPR/Cas9 System. ACS Synthetic Biology, 2019, 8, 621-632.	1.9	51
18	Reproductive effects linked to DNA methylation in male zebrafish chronically exposed to environmentally relevant concentrations of di-(2-ethylhexyl) phthalate. Environmental Pollution, 2018, 237, 1050-1061.	3.7	49

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19	Potential health risk of heavy metals in the leather manufacturing industries in Sialkot, Pakistan. Scientific Reports, 2017, 7, 8848.	1.6	48
20	Potential adverse outcome pathway (AOP) of silver nanoparticles mediated reproductive toxicity in zebrafish. Chemosphere, 2018, 207, 320-328.	4.2	48
21	Prioritizing phthalate esters (PAEs) using experimental in vitro/vivo toxicity assays and computational in silico approaches. Journal of Hazardous Materials, 2020, 398, 122851.	6.5	48
22	Mesh-Embedded Polysulfone/Sulfonated Polysulfone Supported Thin Film Composite Membranes for Forward Osmosis. ACS Applied Materials & Interfaces, 2018, 10, 2918-2928.	4.0	46
23	In vivo characterization of hair and skin derived carbon quantum dots with high quantum yield as long-term bioprobes in zebrafish. Scientific Reports, 2016, 6, 37860.	1.6	44
24	Perturbation effect of reduced graphene oxide quantum dots (rGOQDs) on aryl hydrocarbon receptor (AhR) pathway in zebrafish. Biomaterials, 2017, 133, 49-59.	5.7	44
25	Transcriptomic response and perturbation of toxicity pathways in zebrafish larvae after exposure to graphene quantum dots (GQDs). Journal of Hazardous Materials, 2018, 357, 146-158.	6.5	42
26	Nanotoxicity of Silver Nanoparticles on HEK293T Cells: A Combined Study Using Biomechanical and Biological Techniques. ACS Omega, 2018, 3, 6770-6778.	1.6	42
27	Full-color carbon dots with multiple red-emission tuning: on/off sensors, in vitro and in vivo multicolor bioimaging. Journal of Materials Science, 2019, 54, 6815-6825.	1.7	42
28	Impact of water quality on the microbial diversity in the surface water along the Three Gorge Reservoir (TGR), China. Ecotoxicology and Environmental Safety, 2019, 181, 412-418.	2.9	41
29	Deletion of mstna and mstnb impairs the immune system and affects growth performance in zebrafish. Fish and Shellfish Immunology, 2018, 72, 572-580.	1.6	40
30	Mechanistic toxicity of DEHP at environmentally relevant concentrations (ERCs) and ecological risk assessment in the Three Gorges Reservoir Area, China. Environmental Pollution, 2018, 242, 1939-1949.	3.7	38
31	Prioritizing selected PPCPs on the basis of environmental and toxicogenetic concerns: A toxicity estimation to confirmation approach. Journal of Hazardous Materials, 2019, 380, 120828.	6.5	37
32	Individual and combined mechanistic toxicity of sulfonamides and their implications for ecological risk assessment in the Three Gorges Reservoir Area (TGRA), China. Journal of Hazardous Materials, 2020, 382, 121106.	6.5	36
33	Chronic exposure to PPCPs mixture at environmentally relevant concentrations (ERCs) altered carbohydrate and lipid metabolism through gut and liver toxicity in zebrafish. Environmental Pollution, 2021, 273, 116494.	3.7	35
34	A novel forward osmosis system in landfill leachate treatment for removing polycyclic aromatic hydrocarbons and for direct fertigation. Chemosphere, 2017, 168, 112-121.	4.2	34
35	Investigation of a genetic algorithm based cubic spline smoothing for baseline correction of Raman spectra. Chemometrics and Intelligent Laboratory Systems, 2016, 152, 1-9.	1.8	32
36	A review on efficient removal of phthalic acid esters via biochars and transition metals-activated persulfate systems. Chemosphere, 2021, 277, 130256.	4.2	32

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37	Zebrafish GAPDH can be used as a reference gene for expression analysis in cross-subfamily cloned embryos. Analytical Biochemistry, 2007, 363, 291-293.	1.1	31
38	Diverse toxicological risks of PAHs in surface water with an impounding level of 175 m in the Three Gorges Reservoir Area, China. Science of the Total Environment, 2017, 580, 1085-1096.	3.9	30
39	Generation and application of a novel transgenic zebrafish line Tg(cyp1a:mCherry) as an in vivo assay to sensitively monitor PAHs and TCDD in the environment. Journal of Hazardous Materials, 2018, 344, 723-732.	6.5	27
40	A novel regulatory circuit in base excision repair involving AP endonuclease 1, Creb1 and DNA polymerase Î². Nucleic Acids Research, 2011, 39, 3156-3165.	6.5	26
41	Role of germ-free animal models in understanding interactions of gut microbiota to host and environmental health: A special reference to zebrafish. Environmental Pollution, 2021, 279, 116925.	3.7	26
42	A novel technique based on in vitro oocyte injection to improve CRISPR/Cas9 gene editing in zebrafish. Scientific Reports, 2016, 6, 34555.	1.6	25
43	CRISPR/Cas9â€based genome engineering of zebrafish using a seamless integration strategy. FASEB Journal, 2018, 32, 5132-5142.	0.2	25
44	Chronic exposure to graphene oxide (GO) induced inflammation and differentially disturbed the intestinal microbiota in zebrafish. Environmental Science: Nano, 2019, 6, 2452-2469.	2.2	25
45	AP endonuclease 1 (Apex1) influences brain development linking oxidative stress and DNA repair. Cell Death and Disease, 2019, 10, 348.	2.7	24
46	Characterization of petroleum-based plastics and their absorbed trace metals from the sediments of the Marina Beach in Chennai, India. Environmental Sciences Europe, 2020, 32, .	2.6	24
47	Disruption of Intestinal Homeostasis Through Altered Responses of the Microbial Community, Energy Metabolites, and Immune System in Zebrafish After Chronic Exposure to DEHP. Frontiers in Microbiology, 2021, 12, 729530.	1.5	24
48	Generation and application of a novel high-throughput detection based on RPA-CRISPR technique to sensitively monitor pathogenic microorganisms in the environment. Science of the Total Environment, 2022, 838, 156048.	3.9	23
49	Health hazards of child labor in the leather products and surgical instrument manufacturing industries of Sialkot, Pakistan. Environmental Pollution, 2017, 226, 198-211.	3.7	22
50	Role of human DNA2 (hDNA2) as a potential target for cancer and other diseases: A systematic review. DNA Repair, 2017, 59, 9-19.	1.3	20
51	Mitochondrial dysfunction, UPRmt signaling, and targeted therapy in metastasis tumor. Cell and Bioscience, 2021, 11, 186.	2.1	20
52	Photodynamic Nanophotosensitizers: Promising Materials for Tumor Theranostics. ACS Biomaterials Science and Engineering, 2020, 6, 5474-5485.	2.6	18
53	Monitoring tetracycline through a solid-state nanopore sensor. Scientific Reports, 2016, 6, 27959.	1.6	17
54	Use of biological detection methods to assess dioxin-like compounds in sediments of Bohai Bay, China. Ecotoxicology and Environmental Safety, 2019, 173, 339-346.	2.9	16

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55	Gut bacteria Vibrio sp. and Aeromonas sp. trigger the expression levels of proinflammatory cytokine: First evidence from the germ-free zebrafish. Fish and Shellfish Immunology, 2020, 106, 518-525.	1.6	16
56	Tissue distribution and endocrine disruption effects of chronic exposure to pharmaceuticals and personal care products mixture at environmentally relevant concentrations in zebrafish. Aquatic Toxicology, 2022, 242, 106040.	1.9	16
57	Identification and characterization of a novel gene differentially expressed in zebrafish cross-subfamily cloned embryos. BMC Developmental Biology, 2008, 8, 29.	2.1	15
58	Transcriptome and in silico approaches provide new insights into the mechanism of male reproductive toxicity induced by chronic exposure to DEHP. Environmental Pollution, 2021, 289, 117944.	3.7	14
59	Inhibition of no tail (ntl) gene expression in zebrafish by external guide sequence (EGS) technique. Molecular Biology Reports, 2008, 35, 139-143.	1.0	13
60	Molecular cloning, characterization and expression analysis of heat shock protein 90 in albino northern snakehead Channa argus. Gene, 2017, 626, 173-181.	1.0	13
61	Comparative expression of zebrafish lats1 and lats2 and their implication in gastrulation movements. Developmental Dynamics, 2009, 238, 2850-2859.	0.8	12
62	Toxicological characterization of a novel wastewater treatment process using EDTA-Na2Zn as draw solution (DS) for the efficient treatment of MBR-treated landfill leachate. Chemosphere, 2016, 155, 100-108.	4.2	12
63	A comprehensive review on genetically modified fish: key techniques, applications and future prospects. Reviews in Aquaculture, 2021, 13, 1635-1660.	4.6	12
64	Hypersensitive assessment of aryl hydrocarbon receptor transcriptional activity using a novel truncatedcyp1apromoter in zebrafish. FASEB Journal, 2018, 32, 2814-2826.	0.2	11
65	New toxicogenetic insights and ranking of the selected pharmaceuticals belong to the three different classes: A toxicity estimation to confirmation approach. Aquatic Toxicology, 2018, 201, 151-161.	1.9	11
66	In vivo toxicity assessment of four types of graphene quantum dots (GQDs) using mRNA sequencing. Toxicology Letters, 2022, 363, 55-66.	0.4	10
67	Role of manganese superoxide dismutase (Mn-SOD) against Cr(III)-induced toxicity in bacteria. Journal of Hazardous Materials, 2021, 403, 123604.	6.5	9
68	Recent Status of Fishes in the Yangtze River and its Ecological Health Assessment. American Journal of Environmental Sciences, 2016, 12, 86-93.	0.3	7
69	Biotoxic effects and gene expression regulation of urban PM2.5 in southwestern China. Science of the Total Environment, 2021, 753, 141774.	3.9	7
70	Stepwise crosstalk between aberrant Nf1, Tp53 and Rb signalling pathways induces gliomagenesis in zebrafish. Brain, 2021, 144, 615-635.	3.7	6
71	Construction of cytoplasmic molecular markers distinguishing Danio rerio from Gobiocypris rarus at high identity domains based on MP-PCR strategy and Sybr Green I detection. Molecular Biology Reports, 2008, 35, 45-50.	1.0	5
72	Cloning and characterization ofcytochrome c oxidase subunit I(COXI) inGobiocypris rarus. DNA Sequence, 2007, 18, 1-8.	0.7	4

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73	Zebrafish Model for Safety and Toxicity Testing of Nutraceuticals. , 2016, , 333-339.		4
74	Loss of mpv17 affected early embryonic development via mitochondria dysfunction in zebrafish. Cell Death Discovery, 2021, 7, 250.	2.0	4
75	The Status of Pollutants in the Three Gorges Reservoir Area, China and its Ecological Health Assessment. American Journal of Environmental Sciences, 2016, 12, 308-316.	0.3	3
76	Environmental Concerns and Toxicogenetic Endpoints of Priority Substances (PSs) and Contaminants of Emerging Concerns (CECs): A Comprehensive Review. American Journal of Environmental Sciences, 2018, 14, 129-155.	0.3	3
77	Identification of a novel gene K23 over-expressed in fish cross-subfamily cloned embryos. Molecular Biology Reports, 2009, 36, 1375-1380.	1.0	2
78	Generation of a novel transgenic marine medaka (Oryzias melastigma) for highly sensitive detection of heavy metals in the environment. Journal of Hazardous Materials, 2021, 419, 126382.	6.5	2
79	A novel WH-flags method based on reducing the acidity of molybdenum blue (MB) reaction and stabilization by EDTA for quickly detecting phosphorus in water. Environmental Sciences: Processes and Impacts, 2021, 23, 735-744.	1.7	1
80	Zebrafish as a model system to evaluate the safety and toxicity of nutraceuticals. , 2021, , 395-409.		0