

Elvis Genbo Xu

List of Publications by Year in descending order

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77
papers

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citations

159585
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times ranked

4194
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#	ARTICLE	IF	CITATIONS
1	Plastic Teabags Release Billions of Microparticles and Nanoparticles into Tea. <i>Environmental Science & Technology</i> , 2019, 53, 12300-12310.	10.0	591
2	A Review of Microplastics in Table Salt, Drinking Water, and Air: Direct Human Exposure. <i>Environmental Science & Technology</i> , 2020, 54, 3740-3751.	10.0	559
3	Separation and Analysis of Microplastics and Nanoplastics in Complex Environmental Samples. <i>Accounts of Chemical Research</i> , 2019, 52, 858-866.	15.6	418
4	Analysis of environmental nanoplastics: Progress and challenges. <i>Chemical Engineering Journal</i> , 2021, 410, 128208.	12.7	202
5	Effects of HCO ₃ ⁻ on Degradation of Toxic Contaminants of Emerging Concern by UV/NO ₃ ⁻ . <i>Environmental Science & Technology</i> , 2018, 52, 12697-12707.	10.0	129
6	Time- and Oil-Dependent Transcriptomic and Physiological Responses to <i>Deepwater Horizon</i> Oil in Mahi-Mahi (<i>Coryphaena hippurus</i>) Embryos and Larvae. <i>Environmental Science & Technology</i> , 2016, 50, 7842-7851.	10.0	123
7	Biochar as a novel niche for culturing microbial communities in composting. <i>Waste Management</i> , 2016, 54, 93-100.	7.4	117
8	Toxicity Assessments of Micro- and Nanoplastics Can Be Confounded by Preservatives in Commercial Formulations. <i>Environmental Science and Technology Letters</i> , 2019, 6, 21-25.	8.7	114
9	Environmental occurrence, fate, impact, and potential solution of tire microplastics: Similarities and differences with tire wear particles. <i>Science of the Total Environment</i> , 2021, 795, 148902.	8.0	101
10	Primary and Secondary Plastic Particles Exhibit Limited Acute Toxicity but Chronic Effects on <i>Daphnia magna</i> . <i>Environmental Science & Technology</i> , 2020, 54, 6859-6868.	10.0	97
11	Environmental fate of microplastics in the world's third-largest river: Basin-wide investigation and microplastic community analysis. <i>Water Research</i> , 2022, 210, 118002.	11.3	96
12	Larval Red Drum (<i>Sciaenops ocellatus</i>) Sublethal Exposure to Weathered Deepwater Horizon Crude Oil: Developmental and Transcriptomic Consequences. <i>Environmental Science & Technology</i> , 2017, 51, 10162-10172.	10.0	91
13	Induction of Mitogynogenetic Diploids and Identification of WW Super-female Using Sex-Specific SSR Markers in Half-Smooth Tongue Sole (<i>Cynoglossus semilaevis</i>). <i>Marine Biotechnology</i> , 2012, 14, 120-128.	2.4	87
14	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 October 2009–30 November 2009. <i>Molecular Ecology Resources</i> , 2010, 10, 404-408.	4.8	84
15	Preventing masks from becoming the next plastic problem. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 125.	6.0	84
16	Short-term exposure to positively charged polystyrene nanoparticles causes oxidative stress and membrane destruction in cyanobacteria. <i>Environmental Science: Nano</i> , 2019, 6, 3072-3079.	4.3	79
17	Occurrence and distribution of microplastics in China's largest freshwater lake system. <i>Chemosphere</i> , 2020, 261, 128186.	8.2	72
18	Is microplastic an oxidative stressor? Evidence from a meta-analysis on bivalves. <i>Journal of Hazardous Materials</i> , 2022, 423, 127211.	12.4	72

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19	Ecological risks posed by ammonia nitrogen (AN) and un-ionized ammonia (NH ₃) in seven major river systems of China. <i>Chemosphere</i> , 2018, 202, 136-144.	8.2	66
20	Toxicity mechanisms of polystyrene microplastics in marine mussels revealed by high-coverage quantitative metabolomics using chemical isotope labeling liquid chromatography mass spectrometry. <i>Journal of Hazardous Materials</i> , 2021, 417, 126003.	12.4	66
21	Construction of a Genetic Linkage Map and Mapping of a Female-Specific DNA Marker in Half-Smooth Tongue Sole (<i>Cynoglossus semilaevis</i>). <i>Marine Biotechnology</i> , 2009, 11, 699-709.	2.4	63
22	Key mechanisms of micro- and nanoplastic (MNP) toxicity across taxonomic groups. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 247, 109056.	2.6	59
23	The occurrence and ecological risks of endocrine disrupting chemicals in sewage effluents from three different sewage treatment plants, and in natural seawater from a marine reserve of Hong Kong. <i>Marine Pollution Bulletin</i> , 2014, 85, 352-362.	5.0	58
24	Uptake, translocation, and biological impacts of micro(nano)plastics in terrestrial plants: Progress and prospects. <i>Environmental Research</i> , 2022, 203, 111867.	7.5	57
25	Exposure to Crude Oil Induces Retinal Apoptosis and Impairs Visual Function in Fish. <i>Environmental Science & Technology</i> , 2020, 54, 2843-2850.	10.0	47
26	Developmental toxicity of hydroxylated chrysene metabolites in zebrafish embryos. <i>Aquatic Toxicology</i> , 2017, 189, 77-86.	4.0	46
27	Microbial community structure and predicted bacterial metabolic functions in biochar pellets aged in soil after 34 months. <i>Applied Soil Ecology</i> , 2016, 100, 135-143.	4.3	43
28	Long-Term Spatio-Temporal Trends of Organotin Contaminations in the Marine Environment of Hong Kong. <i>PLoS ONE</i> , 2016, 11, e0155632.	2.5	38
29	Environmental fate and ecological risks of nonylphenols and bisphenol A in the Cape D'Aguiar Marine Reserve, Hong Kong. <i>Marine Pollution Bulletin</i> , 2015, 91, 128-138.	5.0	34
30	Revealing ecological risks of priority endocrine disrupting chemicals in four marine protected areas in Hong Kong through an integrative approach. <i>Environmental Pollution</i> , 2016, 215, 103-112.	7.5	34
31	Spatial and temporal assessment of environmental contaminants in water, sediments and fish of the Salton Sea and its two primary tributaries, California, USA, from 2002 to 2012. <i>Science of the Total Environment</i> , 2016, 559, 130-140.	8.0	33
32	Molecular Method for Sex Identification of Half-Smooth Tongue Sole (<i>Cynoglossus semilaevis</i>) Using a Novel Sex-Linked Microsatellite Marker. <i>International Journal of Molecular Sciences</i> , 2014, 15, 12952-12958.	4.1	32
33	Novel transcriptome assembly and comparative toxicity pathway analysis in mahi-mahi (<i>Coryphaena</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.3	31
34	An integrated environmental risk assessment and management framework for enhancing the sustainability of marine protected areas: The Cape d'Aguiar Marine Reserve case study in Hong Kong. <i>Science of the Total Environment</i> , 2015, 505, 269-281.	8.0	29
35	Assessing Toxicity and <i>in Vitro</i> Bioactivity of Smoked Cigarette Leachate Using Cell-Based Assays and Chemical Analysis. <i>Chemical Research in Toxicology</i> , 2019, 32, 1670-1679.	3.3	29
36	mRNA-miRNA-Seq Reveals Neuro-Cardio Mechanisms of Crude Oil Toxicity in Red Drum (<i>Sciaenops</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	10.0	29

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37	Missing relationship between meso- and microplastics in adjacent soils and sediments. <i>Journal of Hazardous Materials</i> , 2022, 424, 127234.	12.4	29
38	Microplastics can aggravate the impact of ocean acidification on the health of mussels: Insights from physiological performance, immunity and byssus properties. <i>Environmental Pollution</i> , 2022, 308, 119701.	7.5	27
39	Synergistic toxicity of microcystin-LR and Cu to zebrafish (<i>Danio rerio</i>). <i>Science of the Total Environment</i> , 2020, 713, 136393.	8.0	26
40	Polystyrene micro- and nanoplastics affect locomotion and daily activity of <i>Drosophila melanogaster</i> . <i>Environmental Science: Nano</i> , 2021, 8, 110-121.	4.3	26
41	Changes in microRNA mRNA Signatures Agree with Morphological, Physiological, and Behavioral Changes in Larval Mahi-Mahi Treated with Deepwater Horizon Oil. <i>Environmental Science & Technology</i> , 2018, 52, 13501-13510.	10.0	25
42	Cyto- and geno-toxicity of 1,4-dioxane and its transformation products during ultraviolet-driven advanced oxidation processes. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1213-1218.	2.4	24
43	Impacts of Salinity and Temperature on the Thyroidogenic Effects of the Biocide Diuron in <i>Menidia beryllina</i> . <i>Environmental Science & Technology</i> , 2018, 52, 3146-3155.	10.0	23
44	Antibiotic Chlortetracycline Causes Transgenerational Immunosuppression via NF- κ B. <i>Environmental Science & Technology</i> , 2022, 56, 4251-4261.	10.0	23
45	Perfluorooctane Sulfonamide (PFOSA) Induces Cardiotoxicity via Aryl Hydrocarbon Receptor Activation in Zebrafish. <i>Environmental Science & Technology</i> , 2022, 56, 8438-8448.	10.0	21
46	Acute Toxicity of an Emerging Insecticide Pymetrozine to <i>Procambarus clarkii</i> Associated with Rice-Crayfish Culture (RCIS). <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 984.	2.6	20
47	Artificial turf infill associated with systematic toxicity in an amniote vertebrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25156-25161.	7.1	20
48	Efficient degradation of cytotoxic contaminants of emerging concern by UV/H ₂ O ₂ . <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1272-1281.	2.4	19
49	Eighteen novel microsatellite markers for the Chinese sea perch, <i>Lateolabrax maculatus</i> . <i>Conservation Genetics</i> , 2009, 10, 623-625.	1.5	18
50	Enrofloxacin Induces Intestinal Microbiota-Mediated Immunosuppression in Zebrafish. <i>Environmental Science & Technology</i> , 2022, 56, 8428-8437.	10.0	18
51	Mixture Toxicity of Bensulfuron-Methyl and Acetochlor to Red Swamp Crayfish (<i>Procambarus clarkii</i>): Behavioral, Morphological and Histological Effects. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1466.	2.6	16
52	Photocatalytic strategy to mitigate microplastic pollution in aquatic environments: Promising catalysts, efficiencies, mechanisms, and ecological risks. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 504-526.	12.8	16
53	Differential Expression of MicroRNAs in Embryos and Larvae of Mahi-Mahi (<i>Coryphaena</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T5 Letters, 2017, 4, 523-529.	8.7	15
54	Spatial and temporal ecological risk assessment of unionized ammonia nitrogen in Tai Lake, China (2004-2015). <i>Ecotoxicology and Environmental Safety</i> , 2017, 140, 249-255.	6.0	14

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55	Tracking major endocrine disruptors in coastal waters using an integrative approach coupling field-based study and hydrodynamic modeling. <i>Environmental Pollution</i> , 2018, 233, 387-394.	7.5	14
56	Mahi-mahi (<i>Coryphaena hippurus</i>) life development: morphological, physiological, behavioral and molecular phenotypes. <i>Developmental Dynamics</i> , 2019, 248, 337-350.	1.8	12
57	Response to Comment on "Plastic Teabags Release Billions of Microparticles and Nanoparticles into Tea". <i>Environmental Science & Technology</i> , 2020, 54, 14136-14137.	10.0	12
58	A new method for SNP discovery. <i>BioTechniques</i> , 2009, 46, 201-208.	1.8	11
59	The effect of chlorpyrifos on salinity acclimation of juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquatic Toxicology</i> , 2018, 195, 97-102.	4.0	11
60	The developing zebrafish kidney is impaired by Deepwater Horizon crude oil early-life stage exposure: A molecular to whole-organism perspective. <i>Science of the Total Environment</i> , 2022, 808, 151988.	8.0	11
61	Developmental transcriptomic analyses for mechanistic insights into critical pathways involved in embryogenesis of pelagic mahi-mahi (<i>Coryphaena hippurus</i>). <i>PLoS ONE</i> , 2017, 12, e0180454.	2.5	10
62	Molecular mechanisms of zooplanktonic toxicity in the okadaic acid-producing dinoflagellate <i>Prorocentrum lima</i> . <i>Environmental Pollution</i> , 2021, 279, 116942.	7.5	10
63	Isolation and characterization of polymorphic microsatellite loci from soybean mullet (<i>Mugil soiuy</i>). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 1.5</i>	1.5	5
64	Effects of Microplastics on Immune Responses of the Yellow Catfish <i>Pelteobagrus fulvidraco</i> Under Hypoxia. <i>Frontiers in Physiology</i> , 2021, 12, 753999.	2.8	8
65	Changes in thyroid status of <i>Menidia beryllina</i> exposed to the antifouling booster irgarol: Impacts of temperature and salinity. <i>Chemosphere</i> , 2018, 209, 857-865.	8.2	7
66	Twelve polymorphic microsatellite loci from a dinucleotide-enriched genomic library of Japanese Spanish mackerel (<i>Scomberomorus niphonius</i>). <i>Conservation Genetics</i> , 2009, 10, 1167-1169.	1.5	6
67	Development of 15 novel dinucleotide microsatellite markers in the Senegalese sole <i>Solea senegalensis</i> . <i>Fisheries Science</i> , 2008, 74, 1357-1359.	1.6	5
68	Isolation and characterization of 10 polymorphic microsatellite loci from small yellow croaker (<i>Pseudosciaena polyactis</i>). <i>Conservation Genetics</i> , 2009, 10, 1469-1471.	1.5	5
69	New polymorphic microsatellite markers for bluefin leatherjacket (<i>Navodon septentrionalis</i> Gunther.). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 1.5</i>	1.5	5
70	Trophic transfer and effects of DDT in male hornyhead turbot (<i>Pleuronichthys verticalis</i>) from Palos Verdes Superfund site, CA (USA) and comparisons to field monitoring. <i>Environmental Pollution</i> , 2016, 213, 940-948.	7.5	5
71	Metabolic Consequences of Developmental Exposure to Polystyrene Nanoplastics, the Flame Retardant BDE-47 and Their Combination in Zebrafish. <i>Frontiers in Pharmacology</i> , 2022, 13, 822111.	3.5	5
72	Interrogation of the Gulf toadfish intestinal proteome response to hypersalinity exposure provides insights into osmoregulatory mechanisms and regulation of carbonate mineral precipitation. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2018, 27, 66-76.	1.0	4

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73	Isolation and characterization of 12 dinucleotide microsatellite loci from Belongerâ€™s jewfish (<i>Johnius</i>) Tj ETQq1 1,0,784314,3rgBT /Ove	1.5	3
74	Isolation and characterization of polymorphic microsatellite loci from bluefin leatherjacket (<i>Navodon septentrionalis</i> Gunther, 1877). <i>Conservation Genetics</i> , 2009, 10, 1181-1184.	1.5	3
75	Ten polymorphic microsatellite loci for the Atlantic halibut (<i>Hippoglossus hippoglossus</i>) and cross-species application in related species. <i>Conservation Genetics</i> , 2009, 10, 611-614.	1.5	2
76	Isolation and characterization of 30 novel polymorphic microsatellite loci from Japanese halfbeak, <i>Hyporhamphus sajori</i> (Temminck et Schlegel, 1846). <i>Conservation Genetics</i> , 2009, 10, 1927-1930.	1.5	2
77	New polymorphic microsatellite markers for the summer flounder, <i>Paralichthys dentatus</i> . <i>Conservation Genetics</i> , 2009, 10, 717-719.	1.5	1