

Ronny van Aerle

List of Publications by Year in descending order

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62
papers

4,485
citations

159585

30
h-index

128289

60
g-index

64
all docs

64
docs citations

64
times ranked

5733
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicted Exposures to Steroid Estrogens in U.K. Rivers Correlate with Widespread Sexual Disruption in Wild Fish Populations. <i>Environmental Health Perspectives</i> , 2006, 114, 32-39.	6.0	470
2	Effects of Aqueous Exposure to Silver Nanoparticles of Different Sizes in Rainbow Trout. <i>Toxicological Sciences</i> , 2010, 115, 521-534.	3.1	299
3	Review: Do engineered nanoparticles pose a significant threat to the aquatic environment?. <i>Critical Reviews in Toxicology</i> , 2010, 40, 653-670.	3.9	277
4	Bioavailability of Nanoscale Metal Oxides TiO ₂ , CeO ₂ , and ZnO to Fish. <i>Environmental Science & Technology</i> , 2010, 44, 1144-1151.	10.0	251
5	An in vivo testing system for endocrine disruptors in fish early life stages using induction of vitellogenin. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 337-347.	4.3	218
6	Effects of 17 β -ethinylestradiol in a fathead minnow (<i>Pimephales promelas</i>) gonadal recrudescence assay. <i>Ecotoxicology and Environmental Safety</i> , 2004, 57, 330-345.	6.0	207
7	Molecular Mechanisms of Toxicity of Silver Nanoparticles in Zebrafish Embryos. <i>Environmental Science & Technology</i> , 2013, 47, 8005-8014.	10.0	198
8	Sexual disruption in a second species of wild cyprinid fish (the gudgeon, <i>Gobio gobio</i>) in United Kingdom Freshwaters. <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 2841-2847.	4.3	190
9	Effects of atrazine on sex steroid dynamics, plasma vitellogenin concentration and gonad development in adult goldfish (<i>Carassius auratus</i>). <i>Aquatic Toxicology</i> , 2004, 66, 369-379.	4.0	169
10	Molecular Mechanisms of White Spot Syndrome Virus Infection and Perspectives on Treatments. <i>Viruses</i> , 2016, 8, 23.	3.3	162
11	The Kisspeptin/Gonadotropin-Releasing Hormone Pathway and Molecular Signaling of Puberty in Fish1. <i>Biology of Reproduction</i> , 2008, 78, 278-289.	2.7	152
12	Identifying Health Impacts of Exposure to Copper Using Transcriptomics and Metabolomics in a Fish Model. <i>Environmental Science & Technology</i> , 2010, 44, 820-826.	10.0	152
13	Bisphenol A causes reproductive toxicity, decreases <i>dnmt1</i> transcription, and reduces global DNA methylation in breeding zebrafish (<i>Danio rerio</i>). <i>Epigenetics</i> , 2016, 11, 526-538.	2.7	149
14	Window of sensitivity for the estrogenic effects of ethinylestradiol in early life-stages of fathead minnow, <i>Pimephales promelas</i> . <i>Ecotoxicology</i> , 2002, 11, 423-434.	2.4	140
15	Evidence for the existence of a functional Kiss1/Kiss1 receptor pathway in fish. <i>Peptides</i> , 2008, 29, 57-64.	2.4	112
16	Sustainable aquaculture through the One Health lens. <i>Nature Food</i> , 2020, 1, 468-474.	14.0	100
17	Near-future CO ₂ levels impair the olfactory system of a marine fish. <i>Nature Climate Change</i> , 2018, 8, 737-743.	18.8	97
18	High Doses of Intravenously Administered Titanium Dioxide Nanoparticles Accumulate in the Kidneys of Rainbow Trout but with no Observable Impairment of Renal Function. <i>Toxicological Sciences</i> , 2009, 109, 372-380.	3.1	96

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19	Gonadal transcriptome responses and physiological consequences of exposure to oestrogen in breeding zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2007, 83, 134-142.	4.0	89
20	Heart Regeneration in the Mexican Cavefish. <i>Cell Reports</i> , 2018, 25, 1997-2007.e7.	6.4	81
21	Global Transcriptome Profiling Reveals Molecular Mechanisms of Metal Tolerance in a Chronically Exposed Wild Population of Brown Trout. <i>Environmental Science & Technology</i> , 2013, 47, 8869-8877.	10.0	74
22	A New Family of DNA Viruses Causing Disease in Crustaceans from Diverse Aquatic Biomes. <i>MBio</i> , 2020, 11, .	4.1	62
23	Development and validation of a homologous zebrafish (<i>Danio rerio</i> Hamilton–Buchanan) vitellogenin enzyme-linked immunosorbent assay (ELISA) and its application for studies on estrogenic chemicals. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2001, 129, 217-232.	2.6	56
24	Genomic Variation and Evolution of <i>Vibrio parahaemolyticus</i> ST36 over the Course of a Transcontinental Epidemic Expansion. <i>MBio</i> , 2017, 8, .	4.1	53
25	Ontogeny of gonadal sex development relative to growth in fathead minnow. <i>Journal of Fish Biology</i> , 2004, 64, 355-369.	1.6	48
26	De novo assembly of the <i>Carcinus maenas</i> transcriptome and characterization of innate immune system pathways. <i>BMC Genomics</i> , 2015, 16, 458.	2.8	48
27	Bioavailability and Kidney Responses to Diclofenac in the Fathead Minnow (<i>Pimephales</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	10.0	46
28	The Segment Matters: Probable Reassortment of Tilapia Lake Virus (TiLV) Complicates Phylogenetic Analysis and Inference of Geographical Origin of New Isolate from Bangladesh. <i>Viruses</i> , 2020, 12, 258.	3.3	43
29	How do abiotic environmental conditions influence shrimp susceptibility to disease? A critical analysis focussed on White Spot Disease. <i>Journal of Invertebrate Pathology</i> , 2021, 186, 107369.	3.2	41
30	Sexual disruption in a second species of wild cyprinid fish (the gudgeon, <i>Gobio gobio</i>) in United Kingdom freshwaters. <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 2841-7.	4.3	31
31	Development and validation of a direct homologous quantitative sandwich ELISA for fathead minnow (<i>Pimephales promelas</i>) vitellogenin. <i>Aquatic Toxicology</i> , 2006, 78, 202-206.	4.0	28
32	ENDOCRINE (SEXUAL) DISRUPTION IS NOT A PROMINENT FEATURE IN THE PIKE (<i>ESOX LUCIUS</i>), A TOP PREDATOR, LIVING IN ENGLISH WATERS. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 1436.	4.3	27
33	Assessment of cultured fish hepatocytes for studying cellular uptake and (eco)toxicity of nanoparticles. <i>Environmental Chemistry</i> , 2010, 7, 36.	1.5	24
34	Sex-specific transcription and DNA methylation profiles of reproductive and epigenetic associated genes in the gonads and livers of breeding zebrafish. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2018, 222, 16-25.	1.8	24
35	Molecular Characterization of an Endozoicomonas-Like Organism Causing Infection in the King Scallop (<i>Pecten maximus</i> L.). <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	23
36	<i>Candidatus Aquirickettsiella gammari</i> TM (Gammaproteobacteria: Legionellales: Coxiellaceae): A bacterial pathogen of the freshwater crustacean <i>Gammarus fossarum</i> (Malacostraca: Amphipoda). <i>Journal of Invertebrate Pathology</i> , 2018, 156, 41-53.	3.2	23

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37	In vivo virulence of viral haemorrhagic septicaemia virus (VHSV) in rainbow trout <i>Oncorhynchus mykiss</i> correlates inversely with in vitro Mx gene expression. <i>Veterinary Microbiology</i> , 2016, 187, 31-40.	1.9	17
38	Monoclonal antibody enzyme-linked immunosorbent assay to quantify vitellogenin for studies on environmental estrogens in the rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 47-54.	4.3	15
39	The first clawed lobster virus <i>Homarus gammarus nudivirus</i> (HgNV n. sp.) expands the diversity of the Nudiviridae. <i>Scientific Reports</i> , 2019, 9, 10086.	3.3	15
40	COMPRENDO: Focus and Approach. <i>Environmental Health Perspectives</i> , 2006, 114, 98-100.	6.0	14
41	Whole Genome Sequencing of Hepatitis A Virus Using a PCR-Free Single-Molecule Nanopore Sequencing Approach. <i>Frontiers in Microbiology</i> , 2020, 11, 874.	3.5	14
42	Clozapine-induced transcriptional changes in the zebrafish brain. <i>NPJ Schizophrenia</i> , 2020, 6, 3.	3.6	14
43	A seafood risk tool for assessing and mitigating chemical and pathogen hazards in the aquaculture supply chain. <i>Nature Food</i> , 2022, 3, 169-178.	14.0	14
44	Advances in the application of high-throughput sequencing in invertebrate virology. <i>Journal of Invertebrate Pathology</i> , 2017, 147, 145-156.	3.2	12
45	Membrane Trafficking Modulation during <i>Entamoeba</i> Encystation. <i>Scientific Reports</i> , 2017, 7, 12854.	3.3	12
46	A Novel RNA Virus, <i>Macrobrachium rosenbergii</i> Golda Virus (MrGV), Linked to Mass Mortalities of the Larval Giant Freshwater Prawn in Bangladesh. <i>Viruses</i> , 2020, 12, 1120.	3.3	11
47	Global mRNA and miRNA Analysis Reveal Key Processes in the Initial Response to Infection with WSSV in the Pacific Whiteleg Shrimp. <i>Viruses</i> , 2021, 13, 1140.	3.3	11
48	AN IN VIVO TESTING SYSTEM FOR ENDOCRINE DISRUPTORS IN FISH EARLY LIFE STAGES USING INDUCTION OF VITELLOGENIN. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 337.	4.3	11
49	Fish toxicogenomics. <i>Advances in Experimental Biology</i> , 2008, 2, 75-325.	0.1	9
50	The skin immune response of rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum), associated with puffy skin disease (PSD). <i>Fish and Shellfish Immunology</i> , 2018, 78, 355-363.	3.6	9
51	Identification and Full Characterisation of Two Novel Crustacean Infecting Members of the Family Nudiviridae Provides Support for Two Subfamilies. <i>Viruses</i> , 2021, 13, 1694.	3.3	9
52	Puffy Skin Disease Is an Emerging Transmissible Condition in Rainbow Trout <i>Oncorhynchus mykiss</i> Walbaum. <i>PLoS ONE</i> , 2016, 11, e0158151.	2.5	8
53	<i>Txikispora philomaios</i> n. sp., n. g., a microeukaryotic pathogen of amphipods, reveals parasitism and hidden diversity in Class Filasterea. <i>Journal of Eukaryotic Microbiology</i> , 2022, 69, e12875.	1.7	6
54	Draft Genome Sequence of <i>Stenotrophomonas maltophilia</i> SelTE02, a Gammaproteobacterium Isolated from Selenite-Contaminated Mining Soil. <i>Genome Announcements</i> , 2014, 2, .	0.8	5

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55	ELISAs for detecting vitellogenin in the fathead minnow (<i>Pimephales promelas</i>)â€”a critical analysis. Response to Mylchreest et al., <i>Comp Biochem Physiol C</i> 134: 251â€“257, 2003. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2004, 138, 531-532.	2.6	4
56	Evidence of Transcriptional Shutoff by Pathogenic Viral Haemorrhagic Septicaemia Virus in Rainbow Trout. <i>Viruses</i> , 2021, 13, 1129.	3.3	4
57	Estrogenic Effects of Treated Sewage Effluent on Fish. , 2008, , 971-1002.		2
58	Bmp Suppression in Mangrove Killifish Embryos Causes a Split in the Body Axis. <i>PLoS ONE</i> , 2014, 9, e84786.	2.5	2
59	Three Draft Genome Sequences of White Spot Syndrome Virus from India. <i>Microbiology Resource Announcements</i> , 2021, 10, e0057921.	0.6	2
60	Molecular mechanisms of embryonic tail development in the self-fertilizing mangrove killifish <i>Kryptolebias marmoratus</i> . <i>Development (Cambridge)</i> , 2021, 148, .	2.5	2
61	De novo transcriptome assembly of the Qatari pearl oyster <i>Pinctada imbricata radiata</i> . <i>Marine Genomics</i> , 2020, 51, 100734.	1.1	1
62	Next-Generation Sequencing, Bioinformatics, and Infectious Diseases. , 2017, , 405-420.		0