Ioanna Katsiadaki

List of Publications by Year
in descending order

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91 papers	3,631 citations	117453 34 h-index	143772 57 g-index
93 all docs	93 docs citations	93 times ranked	4128 citing authors

#	Article	IF	Citations
1	Aquatic food security: insights into challenges and solutions from an analysis of interactions between fisheries, aquaculture, food safety, human health, fish and human welfare, economy and environment. Fish and Fisheries, 2016, 17, 893-938.	2.7	225
2	The European technical report on aquatic effect-based monitoring tools under the water framework directive. Environmental Sciences Europe, 2015, 27, .	11.0	196
3	The Role of Omics in the Application of Adverse Outcome Pathways for Chemical Risk Assessment. Toxicological Sciences, 2017, 158, 252-262.	1.4	161
4	Identifying Health Impacts of Exposure to Copper Using Transcriptomics and Metabolomics in a Fish Model. Environmental Science & Technology, 2010, 44, 820-826.	4.6	152
5	Adverse outcome pathway networks I: Development and applications. Environmental Toxicology and Chemistry, 2018, 37, 1723-1733.	2.2	146
6	SURVEYS OF PLASMA VITELLOGENIN AND INTERSEX IN MALE FLOUNDER (PLATICHTHYS FLESUS) AS MEASURES OF ENDOCRINE DISRUPTION BY ESTROGENIC CONTAMINATION IN UNITED KINGDOM ESTUARIES: TEMPORAL TRENDS, 1996 TO 2001. Environmental Toxicology and Chemistry, 2004, 23, 748.	2.2	110
7	Detection of environmental androgens: A novel method based on enzymeâ€linked immunosorbent assay of spiggin, the stickleback (<i>Gasterosteus aculeatus</i>) glue protein. Environmental Toxicology and Chemistry, 2002, 21, 1946-1954.	2.2	107
8	Adverse outcome pathway networks II: Network analytics. Environmental Toxicology and Chemistry, 2018, 37, 1734-1748.	2.2	102
9	Sustainable aquaculture through the One Health lens. Nature Food, 2020, 1, 468-474.	6.2	100
10	Use of the Three-Spined Stickleback (Gasterosteus aculeatus) As a Sensitive in Vivo Test for Detection of Environmental Antiandrogens. Environmental Health Perspectives, 2006, 114, 115-121.	2.8	87
11	The potential of the three-spined stickleback (Gasterosteus aculeatus L.) as a combined biomarker for oestrogens and androgens in European waters. Marine Environmental Research, 2002, 54, 725-728.	1.1	84
12	Non-invasive measurement of 11-ketotestosterone, cortisol and androstenedione in male three-spined stickleback (Gasterosteus aculeatus). General and Comparative Endocrinology, 2007, 152, 30-38.	0.8	84
13	The impact of oestrogenic and androgenic contamination on marine organisms in the United Kingdomâ€"summary of the EDMAR programme. Marine Environmental Research, 2002, 54, 645-649.	1.1	83
14	Towards a System Level Understanding of Non-Model Organisms Sampled from the Environment: A Network Biology Approach. PLoS Computational Biology, 2011, 7, e1002126.	1.5	83
15	Hepatic Transcriptomic and Metabolomic Responses in the Stickleback (<i>Gasterosteus aculeatus</i>) Exposed to Environmentally Relevant Concentrations of Dibenzanthracene. Environmental Science & Technology, 2009, 43, 6341-6348.	4.6	71
16	Hepatic transcriptomic and metabolomic responses in the Stickleback (Gasterosteus aculeatus) exposed to ethinyl-estradiol. Aquatic Toxicology, 2010, 97, 174-187.	1.9	71
17	Global genomic methylation levels in the liver and gonads of the three-spine stickleback (Gasterosteus aculeatus) after exposure to hexabromocyclododecane and 17-Î² oestradiol. Environment International, 2008, 34, 310-317.	4.8	70
18	The juvenile three-spined stickleback (Gasterosteus aculeatus L.) as a model organism for endocrine disruption IIâ€"kidney hypertrophy, vitellogenin and spiggin induction. Aquatic Toxicology, 2004, 70, 311-326.	1.9	67

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19	Ethoxyresorufin-O-deethylase (EROD) and vitellogenin (VTG) in flounder (Platichthys flesus): System interaction, crosstalk and implications for monitoring. Aquatic Toxicology, 2007, 81, 233-244.	1.9	66
20	Effects of 17Î±-ethynylestradiol on EROD activity, spiggin and vitellogenin in three-spined stickleback (Gasterosteus aculeatus). Aquatic Toxicology, 2007, 83, 33-42.	1.9	64
21	Detection of the anti-androgenic effect of endocrine disrupting environmental contaminants using in vivo and in vitro assays in the three-spined stickleback. Aquatic Toxicology, 2009, 92, 228-239.	1.9	59
22	The effects of 4-nonylphenol and atrazine on Atlantic salmon (Salmo salar L) smolts. Aquaculture, 2003, 222, 253-263.	1.7	56
23	The model anti-androgen flutamide suppresses the expression of typical male stickleback reproductive behaviour. Aquatic Toxicology, 2008, 90, 37-47.	1.9	55
24	Vitellogenin in the blood plasma of male cod (Gadus morhua): A sign of oestrogenic endocrine disruption in the open sea?. Marine Environmental Research, 2006, 61, 149-170.	1.1	53
25	Biomarker responses in wild three-spined stickleback (Gasterosteus aculeatus L.) as a useful tool for freshwater biomonitoring: A multiparametric approach. Environment International, 2008, 34, 490-498.	4.8	51
26	The organophosphorous pesticide, fenitrothion, acts as an anti-androgen and alters reproductive behavior of the male three-spined stickleback, Gasterosteus aculeatus. Ecotoxicology, 2009, 18, 122-133.	1.1	41
27	Evidence suggesting that diâ€<i>n</i>â€butyl phthalate has antiandrogenic effects in fish. Environmental Toxicology and Chemistry, 2011, 30, 1338-1345.	2.2	40
28	Relationship between Sex Steroid and Vitellogenin Concentrations in Flounder (Platichthys flesus) Sampled from an Estuary Contaminated with Estrogenic Endocrine-Disrupting Compounds. Environmental Health Perspectives, 2006, 114, 27-31.	2.8	39
29	Evidence for estrogenic endocrine disruption in an offshore flatfish, the dab (Limanda limanda L.). Marine Environmental Research, 2007, 64, 128-148.	1.1	39
30	Kinetics of vitellogenin protein and mRNA induction and depuration in fish following laboratory and environmental exposure to oestrogens. Marine Environmental Research, 2004, 58, 419-423.	1.1	38
31	Development of a stickleback kidney cell culture assay for the screening of androgenic and anti-androgenic endocrine disrupters. Aquatic Toxicology, 2006, 79, 158-166.	1.9	38
32	Recommended approaches to the scientific evaluation of ecotoxicological hazards and risks of endocrine-active substances. Integrated Environmental Assessment and Management, 2017, 13, 267-279.	1.6	38
33	Current limitations and recommendations to improve testing for the environmental assessment of endocrine active substances. Integrated Environmental Assessment and Management, 2017, 13, 302-316.	1.6	35
34	A cDNA microarray for the three-spined stickleback, Gasterosteus aculeatus L., and analysis of the interactive effects of oestradiol and dibenzanthracene exposures. Journal of Fish Biology, 2008, 72, 2133-2153.	0.7	34
35	Reproductive potential of <i>Schistocephalus solidus</i>â€infected male threeâ€spined stickleback <i>Gasterosteus aculeatus</i> from two U.K. populations. Journal of Fish Biology, 2009, 75, 2095-2107.	0.7	29
36	ESTROGENIC AND ANDROGENIC EFFECTS OF MUNICIPAL WASTEWATER EFFLUENT ON REPRODUCTIVE ENDPOINT BIOMARKERS IN THREE-SPINED STICKLEBACK (GASTEROSTEUS ACULEATUS). Environmental Toxicology and Chemistry, 2009, 28, 1063.	2.2	29

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37	Prozac affects stickleback nest quality without altering androgen, spiggin or aggression levels during a 21-day breeding test. Aquatic Toxicology, 2015, 168, 78-89.	1.9	29
38	Mussels (Mytilus spp.) display an ability for rapid and high capacity uptake of the vertebrate steroid, estradiol-17Î² from water. Journal of Steroid Biochemistry and Molecular Biology, 2017, 165, 407-420.	1.2	29
39	Flow regime affects building behaviour and nest structure in sticklebacks. Behavioral Ecology and Sociobiology, 2010, 64, 1927-1935.	0.6	26
40	Effects of sewage effluent remediation on body size, somatic RNA: DNA ratio, and markers of chemical exposure in three-spined sticklebacks. Environment International, 2011, 37, 158-169.	4.8	25
41	Rapid uptake, biotransformation, esterification and lack of depuration of testosterone and its metabolites by the common mussel, Mytilus spp.. Journal of Steroid Biochemistry and Molecular Biology, 2017, 171, 54-65.	1.2	24
42	Short-term exposure to a treated sewage effluent alters reproductive behaviour in the three-spined stickleback (Gasterosteus aculeatus). Aquatic Toxicology, 2011, 105, 78-88.	1.9	23
43	Piscine Follicle-Stimulating Hormone Triggers Progestin Production in Gilthead Seabream Primary Ovarian Follicles1. Biology of Reproduction, 2012, 87, 111.	1.2	23
44	Detection of estrogenic activity in municipal wastewater effluent using primary cell cultures from three-spined stickleback and chemical analysis. Chemosphere, 2008, 73, 1064-1070.	4.2	22
45	Variation in the reproductive potential of Schistocephalus infected male sticklebacks is associated with 11-ketotestosterone titre. Hormones and Behavior, 2011, 60, 371-379.	1.0	21
46	INTERCALIBRATION EXERCISE USING A STICKLEBACK ENDOCRINE DISRUPTER SCREENING ASSAY. Environmental Toxicology and Chemistry, 2008, 27, 404.	2.2	20
47	Field surveys reveal the presence of anti-androgens in an effluent-receiving river using stickleback-specific biomarkers. Aquatic Toxicology, 2012, 122-123, 75-85.	1.9	20
48	Survey of estrogenic and androgenic disruption in Swedish coastal waters by the analysis of bile fluid from perch and biomarkers in the three-spined stickleback. Marine Pollution Bulletin, 2007, 54, 1868-1880.	2.3	19
49	Exposure of sticklebacks (Gasterosteus aculeatus) to cadmium sulfide nanoparticles: Biological effects and the importance of experimental design. Marine Environmental Research, 2008, 66, 161-163.	1.1	19
50	Skin swabbing is a refined technique to collect DNA from model fish species. Scientific Reports, 2020, 10, 18212.	1.6	18
51	Construction of subtracted EST and normalised cDNA libraries from liver of chemical-exposed three-spined stickleback (Gasterosteus aculeatus) containing pollutant-responsive genes as a resource for transcriptome analysis. Marine Environmental Research, 2008, 66, 127-130.	1.1	17
52	Further refinement of the nonâ€invasive procedure for measuring steroid production in the male threeâ€spined stickleback <i>Gasterosteus aculeatus</i>. Journal of Fish Biology, 2009, 75, 2082-2094.	0.7	17
53	Contrasting effects of hypoxia on copper toxicity during development in the three-spined stickleback (Gasterosteus aculeatus). Environmental Pollution, 2017, 222, 433-443.	3.7	17
54	Endocrine disruption and differential gene expression in sentinel fish on St. Lawrence Island, Alaska: Health implications for indigenous residents. Environmental Pollution, 2018, 234, 279-287.	3.7	17

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55	Detection of environmental androgens: a novel method based on enzyme-linked immunosorbent assay of spiggin, the stickleback (Gasterosteus aculeatus) glue protein. Environmental Toxicology and Chemistry, 2002, 21, 1946-54.	2.2	16
56	Uptake and metabolism of water-borne progesterone by the mussel, Mytilus spp. (Mollusca). Journal of Steroid Biochemistry and Molecular Biology, 2018, 178, 13-21.	1.2	15
57	Are marine invertebrates really at risk from endocrine-disrupting chemicals?. Current Opinion in Environmental Science and Health, 2019, 11, 37-42.	2.1	15
58	Estrogen- and androgen-sensitive bioassays based on primary cell and tissue slice cultures from three-spined stickleback (Gasterosteus aculeatus). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2007, 146, 431-442.	1.3	14
59	Spiggin levels are reduced in male sticklebacks infected with Schistocephalus solidus. Journal of Fish Biology, 2007, 71, 298-303.	0.7	14
60	Sublethal exposure to copper supresses the ability to acclimate to hypoxia in a model fish species. Aquatic Toxicology, 2019, 217, 105325.	1.9	14
61	A seafood risk tool for assessing and mitigating chemical and pathogen hazards in the aquaculture supply chain. Nature Food, 2022, 3, 169-178.	6.2	14
62	Anti-androgens act jointly in suppressing spiggin concentrations in androgen-primed female three-spined sticklebacks â€“ Prediction of combined effects by concentration addition. Aquatic Toxicology, 2013, 140-141, 145-156.	1.9	13
63	Dying for change: A roadmap to refine the fish acute toxicity test after 40 years of applying a lethal endpoint. Ecotoxicology and Environmental Safety, 2021, 223, 112585.	2.9	13
64	Indices of stress in three-spined sticklebacks Gasterosteus aculeatus in relation to extreme weather events and exposure to wastewater effluent. Journal of Fish Biology, 2011, 79, 256-279.	0.7	12
65	In vivo endocrine effects of naphthenic acids in fish. Chemosphere, 2013, 93, 2356-2364.	4.2	12
66	Hepatic transcriptional responses to copper in the three-spined stickleback are affected by their pollution exposure history. Aquatic Toxicology, 2017, 184, 26-36.	1.9	12
67	DETECTION OF ENVIRONMENTAL ANDROGENS: A NOVEL METHOD BASED ON ENZYME-LINKED IMMUNOSORBENT ASSAY OF SPIGGIN, THE STICKLEBACK (GASTEROSTEUS ACULEATUS) GLUE PROTEIN. Environmental Toxicology and Chemistry, 2002, 21, 1946.	2.2	12
68	Tributyltin: Advancing the Science on Assessing Endocrine Disruption with an Unconventional Endocrine-Disrupting Compound. Reviews of Environmental Contamination and Toxicology, 2017, 245, 65-127.	0.7	11
69	Understanding and managing fish populations: keeping the toolbox fit for purpose. Journal of Fish Biology, 2018, 92, 727-751.	0.7	11
70	Microarray analysis of di-n-butyl phthalate and 17Î± ethinyl-oestradiol responses in three-spined stickleback testes reveals novel candidate genes for endocrine disruption. Ecotoxicology and Environmental Safety, 2016, 124, 96-104.	2.9	10
71	Oestrogenic pollutants promote the growth of a parasite in male sticklebacks. Aquatic Toxicology, 2016, 174, 92-100.	1.9	8
72	Unravelling paralogous gene expression dynamics during three-spined stickleback embryogenesis. Scientific Reports, 2019, 9, 3752.	1.6	8

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73	Three-spined stickleback: an emerging model in environmental endocrine disruption. Environmental Sciences: an International Journal of Environmental Physiology and Toxicology, 2007, 14, 263-83.	0.1	8
74	Differential sensitivity of flounder (Platichthys flesus) in response to oestrogenic chemical exposure: An issue for design and interpretation of monitoring and research programmes. Marine Environmental Research, 2006, 62, 315-325.	1.1	6
75	Comments on Niemuth, N.J. and Klaper, R.D. 2015. Emerging wastewater contaminant metformin causes intersex and reduced fecundity in fish. Chemosphere 135, 38â€“45. Chemosphere, 2016, 165, 566-569.	4.2	6
76	Reducing repetition of regulatory vertebrate ecotoxicology studies. Integrated Environmental Assessment and Management, 2017, 13, 955-957.	1.6	6
77	Molecular cloning of two types of spiggin cDNA in the three-spined stickleback, Gasterosteus aculeatus. Fish Physiology and Biochemistry, 2003, 28, 425.	0.9	5
78	Population bottlenecks, genetic diversity and breeding ability of the three-spined stickleback (Gasterosteus aculeatus) from three polluted English Rivers. Aquatic Toxicology, 2013, 142-143, 264-271.	1.9	5
79	Data on the uptake and metabolism of testosterone by the common mussel, Mytilus spp.. Data in Brief, 2017, 12, 164-168.	0.5	5
80	Hormonal changes over the spawning cycle in the female three-spined stickleback, Gasterosteus aculeatus. General and Comparative Endocrinology, 2018, 257, 97-105.	0.8	5
81	The Uptake of Ethinyl-Estradiol and Cortisol From Water by Mussels (Mytilus spp.). Frontiers in Endocrinology, 2021, 12, 794623.	1.5	5
82	Assessment of reproductive biomarkers in threeâ€spined stickleback (<i>Gasterosteus aculeatus</i>) from sewage effluent recipients. Environmental Toxicology, 2013, 28, 229-237.	2.1	4
83	Data on the uptake and metabolism of the vertebrate steroid estradiol-17Î² from water by the common mussel, Mytilus spp.. Data in Brief, 2016, 9, 956-965.	0.5	4
84	Application of Passive Sampling to Characterise the Fish Exometabolome. Metabolites, 2017, 7, 8.	1.3	4
85	Hypoxia modifies the response to flutamide and linuron in male three-spined stickleback (Gasterosteus) Tj ETQq1 1 0.784314 rgBT /Ove	3.7	3
86	Modeling the metabolic profile of Mytilus edulis reveals molecular signatures linked to gonadal development, sex and environmental site. Scientific Reports, 2021, 11, 12882.	1.6	3
87	Insights into the development of hepatocellular fibrillar inclusions in European flounder (Platichthys flesus) from UK estuaries. Chemosphere, 2020, 256, 126946.	4.2	2
88	A chemometrical approach to study interactions between ethynylestradiol and an AhRâ€agonist in stickleback (<i>Gasterosteus aculeatus</i>). Journal of Chemometrics, 2010, 24, 768-778.	0.7	1
89	SOCIAL AND REPRODUCTIVE BEHAVIORS | Sexual Behavior in Fish. , 2011, , 656-661.		1
90	The housing, care, and use of a laboratory three-spined stickleback colony. , 2022, , 349-371.		0

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91	Using the stickleback to monitor androgens and anti-androgens in the aquatic environment. , 2005, , .		0