

#	ARTICLE	IF	CITATIONS
1	Acute toxicity of carbamazepine to juvenile rainbow trout (<i>Oncorhynchus mykiss</i>): Effects on antioxidant responses, hematological parameters and hepatic EROD. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 319-327.	6.0	144
2	Bioaccumulation of psychoactive pharmaceuticals in fish in an effluent dominated stream. <i>Water Research</i> , 2017, 124, 654-662.	11.3	142
3	Hepatic antioxidant status and hematological parameters in rainbow trout, <i>Oncorhynchus mykiss</i> , after chronic exposure to carbamazepine. <i>Chemico-Biological Interactions</i> , 2010, 183, 98-104.	4.0	136
4	The Effect of Diazinon on Haematological Indices of Common Carp (<i>Cyprinus carpio</i> L.). <i>Acta Veterinaria Brno</i> , 2001, 70, 457-465.	0.5	121
5	Chronic toxicity of verapamil on juvenile rainbow trout (<i>Oncorhynchus mykiss</i>): Effects on morphological indices, hematological parameters and antioxidant responses. <i>Journal of Hazardous Materials</i> , 2011, 185, 870-880.	12.4	117
6	Effects of pharmaceuticals present in aquatic environment on Phase I metabolism in fish. <i>Environmental Toxicology and Pharmacology</i> , 2015, 40, 430-444.	4.0	107
7	Effects of exposure to sublethal propiconazole on the antioxidant defense system and Na ⁺ /K ⁺ -ATPase activity in brain of rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Aquatic Toxicology</i> , 2010, 98, 297-303.	4.0	85
8	Life history and biochemical effects of chlorantraniliprole on <i>Chironomus riparius</i> . <i>Science of the Total Environment</i> , 2015, 508, 506-513.	8.0	83
9	Presence of UV filters in surface water and the effects of phenylbenzimidazole sulfonic acid on rainbow trout (<i>Oncorhynchus mykiss</i>) following a chronic toxicity test. <i>Ecotoxicology and Environmental Safety</i> , 2013, 96, 41-47.	6.0	76
10	Transport of pharmaceuticals and their metabolites between water and sediments as a further potential exposure for aquatic organisms. <i>Journal of Hazardous Materials</i> , 2018, 342, 401-407.	12.4	71
11	Effect of Deltamethrin on Haematological Indices of Common Carp (<i>Cyprinus carpio</i> L.). <i>Acta Veterinaria Brno</i> , 2003, 72, 79-85.	0.5	69
12	Long-term effects of oxytetracycline exposure in zebrafish: A multi-level perspective. <i>Chemosphere</i> , 2019, 222, 333-344.	8.2	65
13	Responses of antioxidant status and Na ⁺ /K ⁺ -ATPase activity in gill of rainbow trout, <i>Oncorhynchus mykiss</i> , chronically treated with carbamazepine. <i>Chemosphere</i> , 2009, 77, 1476-1481.	8.2	63
14	Modulation of antioxidant defence system in brain of rainbow trout (<i>Oncorhynchus mykiss</i>) after chronic carbamazepine treatment. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2010, 151, 137-141.	2.6	57
15	Effects of pollution on chub in the River Elbe, Czech Republic. <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 737-746.	6.0	55
16	EROD and MROD as Markers of Cytochrome P450 1A Activities in Hepatic Microsomes from Entire and Castrated Male Pigs. <i>Sensors</i> , 2009, 9, 2134-2147.	3.8	54
17	Toxicity of organic UV-filters to the aquatic midge <i>Chironomus riparius</i> . <i>Ecotoxicology and Environmental Safety</i> , 2017, 143, 210-216.	6.0	54
18	Assessment of toxic effects of the antibiotic erythromycin on the marine fish gilthead seabream (<i>Sparus aurata</i> L.) by a multi-biomarker approach. <i>Chemosphere</i> , 2019, 216, 234-247.	8.2	54

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19	Assessment of thiamethoxam toxicity to <i>Chironomus riparius</i> . <i>Ecotoxicology and Environmental Safety</i> , 2017, 137, 240-246.	6.0	50
20	Multiple biomarkers responses in juvenile rainbow trout, <i>Oncorhynchus mykiss</i> , after acute exposure to a fungicide propiconazole. <i>Environmental Toxicology</i> , 2013, 28, 119-126.	4.0	49
21	Physiological condition status and muscle-based biomarkers in rainbow trout (<i>Oncorhynchus</i>) Tj ETQq1 1 0.784314 rgBT /Overlo 2.8 48	2.8	48
22	Biochemical and physiological responses in liver and muscle of rainbow trout after long-term exposure to propiconazole. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1391-1396.	6.0	48
23	Behavioural responses of freshwater planarians after short-term exposure to the insecticide chlorantraniliprole. <i>Aquatic Toxicology</i> , 2016, 170, 371-376.	4.0	45
24	Sesamin Increases Alpha-Linolenic Acid Conversion to Docosahexaenoic Acid in Atlantic Salmon (<i>Salmo salar</i> L.) Hepatocytes: Role of Altered Gene Expression. <i>Lipids</i> , 2008, 43, 999-1008.	1.7	43
25	Clotrimazole, but not dexamethasone, is a potent in vitro inhibitor of cytochrome P450 isoforms CYP1A and CYP3A in rainbow trout. <i>Chemosphere</i> , 2013, 92, 1099-1104.	8.2	43
26	Distribution of Metals in Tissues of the Common Carp (<i>Cyprinus carpio</i> L.). <i>Acta Veterinaria Brno</i> , 2007, 76, S93-S100.	0.5	42
27	Modulation of porcine cytochrome P450 enzyme activities by surgical castration and immunocastration. <i>Animal</i> , 2009, 3, 1124-1132.	3.3	41
28	Enzymatic alterations and RNA/DNA ratio in intestine of rainbow trout, <i>Oncorhynchus mykiss</i> , induced by chronic exposure to carbamazepine. <i>Ecotoxicology</i> , 2010, 19, 872-878.	2.4	41
29	Effects of exposure to sublethal propiconazole on intestine-related biochemical responses in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Chemico-Biological Interactions</i> , 2010, 185, 241-246.	4.0	41
30	Modulation of glutathione-related antioxidant defense system of fish chronically treated by the fungicide propiconazole. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2010, 152, 392-398.	2.6	41
31	Sesamin Supplementation Increases White Muscle Docosahexaenoic Acid (DHA) Levels in Rainbow Trout (<i>Oncorhynchus mykiss</i>) Fed High Alpha-Linolenic Acid (ALA) Containing Vegetable Oil: Metabolic Actions. <i>Lipids</i> , 2008, 43, 989-997.	1.7	38
32	In vitro effects of the citrus flavonoids diosmin, naringenin and naringin on the hepatic drug-metabolizing CYP3A enzyme in human, pig, mouse and fish. <i>Biochemical Pharmacology</i> , 2016, 110-111, 109-116.	4.4	37
33	Evaluating environmental impact of STPs situated on streams in the Czech Republic: An integrated approach to biomonitoring the aquatic environment. <i>Water Research</i> , 2011, 45, 1403-1413.	11.3	35
34	Water reuse and aquaculture: Pharmaceutical bioaccumulation by fish during tertiary treatment in a wastewater stabilization pond. <i>Environmental Pollution</i> , 2020, 267, 115593.	7.5	34
35	In vitro inhibition of human CYP2E1 and CYP3A by quercetin and myricetin in hepatic microsomes is not gender dependent. <i>Toxicology</i> , 2017, 381, 10-18.	4.2	33
36	Biochemical Markers for Assessing Aquatic Contamination. <i>Sensors</i> , 2007, 7, 2599-2611.	3.8	32

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37	Perfluoroalkyl substances in aquatic environment-comparison of fish and passive sampling approaches. <i>Environmental Research</i> , 2016, 144, 92-98.	7.5	31
38	The sub-lethal effects and tissue concentration of the human pharmaceutical atenolol in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Science of the Total Environment</i> , 2014, 497-498, 209-218.	8.0	30
39	Comparison of three fluorescent CYP3A substrates in two vertebrate models: pig and Atlantic salmon. <i>Animal</i> , 2012, 6, 633-640.	3.3	29
40	<i>In Vitro</i> Gender-Dependent Inhibition of Porcine Cytochrome P450 Activity by Selected Flavonoids and Phenolic Acids. <i>BioMed Research International</i> , 2015, 2015, 1-7.	1.9	29
41	Exposure to chlorantraniliprole affects the energy metabolism of the caddisfly <i>Sericostoma vittatum</i> . <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 1584-1591.	4.3	29
42	Biomarker response, health indicators, and intestinal microbiome composition in wild brown trout (<i>Salmo trutta m. fario</i> L.) exposed to a sewage treatment plant effluent-dominated stream. <i>Science of the Total Environment</i> , 2018, 625, 1494-1509.	8.0	26
43	Invasive Species Mediate Insecticide Effects on Community and Ecosystem Functioning. <i>Environmental Science & Technology</i> , 2018, 52, 4889-4900.	10.0	25
44	Foraging behaviour of top predators mediated by pollution of psychoactive pharmaceuticals and effects on ecosystem stability. <i>Science of the Total Environment</i> , 2019, 662, 655-661.	8.0	24
45	The effects of sewage treatment plant effluents on hepatic and intestinal biomarkers in common carp (<i>Cyprinus carpio</i>). <i>Science of the Total Environment</i> , 2018, 635, 1160-1169.	8.0	23
46	Effect of Exposure to Bisphenol A on the Sex Differentiation in Zebrafish (<i>Danio rerio</i>). <i>Acta Veterinaria Brno</i> , 2005, 74, 287-291.	0.5	22
47	Contamination of fish in important fishing grounds of the Czech Republic. <i>Ecotoxicology and Environmental Safety</i> , 2014, 109, 101-109.	6.0	21
48	Young-of-the-year fish as a prospective bioindicator for aquatic environmental contamination monitoring. <i>Water Research</i> , 2016, 103, 334-342.	11.3	20
49	Chub (<i>Leuciscus cephalus</i>) as a Bioindicator of Contamination of the Vltava River by Synthetic Musk Fragrances. <i>Archives of Environmental Contamination and Toxicology</i> , 2007, 53, 390-396.	4.1	19
50	Fate of perfluoroalkyl substances within a small stream food web affected by sewage effluent. <i>Water Research</i> , 2018, 134, 226-233.	11.3	18
51	Effects of Multi-Component Mixtures from Sewage Treatment Plant Effluent on Common Carp (<i>Cyprinus carpio</i>) under Fully Realistic Condition. <i>Environmental Management</i> , 2019, 63, 466-484.	2.7	18
52	Profiles of Persistent Organochlorine Pollutants (POPs) in Tissues of Marketable Common Carp and in Bottom Sediments of Selected Ponds of South and West Bohemia. <i>Acta Veterinaria Brno</i> , 2003, 72, 295-309.	0.5	18
53	Sub-lethal effects and bioconcentration of the human pharmaceutical clotrimazole in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Chemosphere</i> , 2016, 159, 10-22.	8.2	17
54	Biomarkers Detected in Chub (<i>Leuciscus cephalus</i> L.) to Evaluate Contamination of the Elbe and Vltava Rivers, Czech Republic. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2006, 76, 233-241.	2.7	16

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55	Verapamil does not modify catalytic activity of CYP450 in rainbow trout after long-term exposure. <i>Ecotoxicology and Environmental Safety</i> , 2012, 79, 148-152.	6.0	16
56	<i>In vitro</i> and <i>In vivo</i> Association of Porcine Hepatic Cytochrome P450 3A and 2C Activities with Testicular Steroids. <i>Reproduction in Domestic Animals</i> , 2012, 47, 891-898.	1.4	16
57	Metabolome adaptation and oxidative stress response of common carp (<i>Cyprinus carpio</i>) to altered water pollution levels. <i>Environmental Pollution</i> , 2022, 303, 119117.	7.5	15
58	Sesamin as a potential modulator of fatty acid composition in common carp (<i>Cyprinus carpio</i>). <i>Aquaculture Research</i> , 2010, 41, e851-e861.	1.8	14
59	Post-release growth and dispersal of pond and hatchery-reared European grayling <i>Thymallus thymallus</i> compared with their wild conspecifics in a small stream. <i>Journal of Fish Biology</i> , 2010, 76, 684-693.	1.6	13
60	Para-nitrophenol hydroxylation by fish liver microsomes: kinetics and effect of selective cytochrome P450 inhibitors. <i>Fish Physiology and Biochemistry</i> , 2011, 37, 969-976.	2.3	12
61	Does dexamethasone affect hepatic CYP450 system of fish? Semi-static in-vivo experiment on juvenile rainbow trout. <i>Chemosphere</i> , 2015, 139, 155-162.	8.2	12
62	Complex effects of pollution on fish in major rivers in the Czech Republic. <i>Ecotoxicology and Environmental Safety</i> , 2018, 164, 92-99.	6.0	12
63	Effect of human pharmaceuticals common to aquatic environments on hepatic CYP1A and CYP3A-like activities in rainbow trout (<i>Oncorhynchus mykiss</i>): An <i>in vitro</i> study. <i>Chemosphere</i> , 2018, 205, 380-386.	8.2	11
64	<i>In vitro</i> effects of diosmin, naringenin, quercetin and indole-3-carbinol on fish hepatic CYP1A1 in the presence of clotrimazole and dexamethasone. <i>Chemosphere</i> , 2018, 192, 105-112.	8.2	11
65	Biochemical responses in gills of rainbow trout exposed to propiconazole. <i>Open Life Sciences</i> , 2011, 6, 84-90.	1.4	10
66	Phase I metabolism of 3-methylindole, an environmental pollutant, by hepatic microsomes from carp (<i>Cyprinus carpio</i>) and rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Chemosphere</i> , 2016, 150, 304-310.	8.2	9
67	Leeches as Sensor-bioindicators of River Contamination by PCBs. <i>Sensors</i> , 2009, 9, 1807-1820.	3.8	8
68	Sex Differentiation and Vitellogenin and 11-Ketotestosterone Levels in Chub, <i>Leuciscus cephalus</i> L., Exposed to 17 β -Estradiol and Testosterone During Early Development. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 82, 280-284.	2.7	8
69	Tissue-specific expression and activity of cytochrome P450 1A and 3A in rainbow trout (<i>Oncorhynchus</i>) Tj ETQq1 1,0,784314,rgBT /O		
70	Toxicity of Diazinon 60 EC for <i>Cyprinus carpio</i> and <i>Poecilia reticulata</i> . <i>Aquaculture International</i> , 2007, 15, 267-276.	2.2	7
71	<i>In vitro</i> investigations of the metabolism of Victoria pure blue BO dye to identify main metabolites for food control in fish. <i>Chemosphere</i> , 2020, 238, 124538.	8.2	7
72	Teleost maturation-inducing hormone, 17,20 β -dihydroxypregn-4-en-3-one, peaks after spawning in <i>Tinca tinca</i> . <i>General and Comparative Endocrinology</i> , 2011, 172, 234-242.	1.8	6

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73	EFFECT OF CULTURE CONDITIONS ON REPRODUCTIVE TRAITS OF BROWN TROUT SALMO TRUTTA L.. Knowledge and Management of Aquatic Ecosystems: an International Journal on Aquatic Ecosystems, 2006, , 1-12.	0.4	5
74	In vitro inhibition of porcine cytochrome P450 by 17 β -estradiol and 17 α -estradiol. Interdisciplinary Toxicology, 2011, 4, 78-84.	1.0	5
75	Recapture and condition of pond-reared, and hatchery-reared 1 \hat{A} + \hat{A} European grayling stocked in addition to wild conspecifics in a small river. Knowledge and Management of Aquatic Ecosystems, 2012, , 10.	1.1	5
76	In vitro inhibition of 7-ethoxyresorufin-O-deethylase (EROD) and p-nitrophenol hydroxylase (PNPH) activities by sesamin in hepatic microsomes from two fish species. Molecular Biology Reports, 2013, 40, 457-462.	2.3	5
77	End-product inhibition of skatole-metabolising enzymes CYP1A, CYP2A19 and CYP2E1 in porcine and piscine hepatic microsomes. Toxicology Letters, 2019, 303, 67-71.	0.8	5
78	INSECTS IN RAINBOW TROUT (ONCORHYNCHUS MYKISS) FEED: EFFECT ON GROWTH, FATTY ACID COMPOSITION AND SENSORY ATTRIBUTES. Acta Ichthyologica Et Piscatoria, 2020, 50, 171-181.	0.7	5
79	Hepatic Ethoxy \hat{e} , Methoxy \hat{e} and Pentoxyresorufin $\langle i \rangle O \langle /i \rangle \hat{e}$ Dealkylase Activities in Landrace and Duroc Pigs Stimulated with hCG. Reproduction in Domestic Animals, 2010, 45, e269-74.	1.4	4
80	CYP1A1 activity in rainbow trout is inhibited by the environmental pollutant p -cresol. Environmental Toxicology and Pharmacology, 2018, 62, 199-202.	4.0	4
81	Effects of acetone, acetonitrile, ethanol, methanol and DMSO on cytochrome P450 in rainbow trout (Oncorhynchus mykiss) hepatic microsomes. Toxicology Mechanisms and Methods, 2015, 25, 501-6.	2.7	4
82	Use of Biochemical Markers for the Assessment of Organic Pollutant Contamination of the Vltava river, Czech Republic. Acta Veterinaria Brno, 2009, 78, 513-524.	0.5	3
83	Tolbutamide hydroxylation by hepatic microsomes from Atlantic salmon (Salmo salar L.). Molecular Biology Reports, 2012, 39, 6867-6873.	2.3	3
84	Aquatic Environmental Health and Toxicology. BioMed Research International, 2016, 2016, 1-2.	1.9	3
85	Influence of geographic origin on post-stocking survival and condition of European grayling ($\langle i \rangle$ Thymallus thymallus $\langle /i \rangle$) in a small river. Aquatic Living Resources, 2018, 31, 29.	1.2	2
86	In Vitro Metabolic Transformation of Pharmaceuticals by Hepatic S9 Fractions from Common Carp (Cyprinus carpio). Molecules, 2020, 25, 2690.	3.8	2
87	Responses of multiple biomarkers in juvenile rainbow trout, Oncorhynchus mykiss, after acute exposure to a human pharmaceutical carpamazepine. Toxicology Letters, 2010, 196, S116.	0.8	1
88	Use of a young-of-the-year fish for assessment of mercury contamination in aquatic environment. Toxicology Letters, 2014, 229, S111.	0.8	1
89	Juvenile fish \hat{e} ”Perspective bioindicators for assesment of the aquatic environment contamination. Toxicology Letters, 2006, 164, S176.	0.8	0
90	Alkylphenols in muscle of fish from rivers in the Czech Republic. Toxicology Letters, 2006, 164, S177.	0.8	0

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91	Effects of chronic terbutryn exposure on common carp (<i>Cyprinus carpio</i> L.). <i>Toxicology Letters</i> , 2010, 196, S313.	0.8	0
92	The sub-lethal toxic effects and bioconcentration of the human pharmaceutical atenolol in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Toxicology Letters</i> , 2013, 221, S60.	0.8	0
93	Stimulatory effect of sesamin on hepatic cytochrome P450 activities in Atlantic salmon (<i>Salmo salar</i> L.) is not directly associated with expression of genes related to xenobiotic metabolism. <i>Xenobiotica</i> , 2015, 45, 598-604.	1.1	0