Vera Mf Almeida-Val

List of Publications by Year
in descending order

109 papers	2,667 citations	186265 28 h-index	214800 47 g-index
113 all docs	113 docs citations	113 times ranked	2457 citing authors

#	Article	IF	Citations
1	Fish and aquatic habitat conservation in South America: a continental overview with emphasis on neotropical systems. Journal of Fish Biology, 2010, 76, 2118-2176.	1.6	320
2	Hypoxia tolerance of Amazon fish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 1998, 120, 151-156.	1.8	110
3	Scaling effects on hypoxia tolerance in the Amazon fish Astronotus ocellatus (Perciformes:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Biochemistry and Molecular Biology, 2000, 125, 219-226.	1.6	95
4	Tribute to R. G. Boutilier: The effect of size on the physiological and behavioural responses of oscar, Astronotus ocellatus, to hypoxia. Journal of Experimental Biology, 2006, 209, 1197-1205.	1.7	90
5	RoundupÂ® exposure promotes gills and liver impairments, DNA damage and inhibition of brain cholinergic activity in the Amazon teleost fish Colossoma macropomum. Chemosphere, 2015, 135, 53-60.	8.2	80
6	Metabolic adjustments in two Amazonian cichlids exposed to hypoxia and anoxia. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2005, 141, 347-355.	1.6	79
7	Metabolic and ionoregulatory responses of the Amazonian cichlid, Astronotus ocellatus, to severe hypoxia. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2007, 177, 361-374.	1.5	69
8	Regulation of gill transcellular permeability and renal function during acute hypoxia in the Amazonian oscar (<i>Astronotus ocellatus</i>): new angles to the osmorespiratory compromise. Journal of Experimental Biology, 2009, 212, 1949-1964.	1.7	63
9	Responses to hypoxia and recovery: repayment of oxygen debt is not associated with compensatory protein synthesis in the Amazonian cichlid, Astronotus ocellatus. Journal of Experimental Biology, 2007, 210, 1935-1943.	1.7	62
10	Mechanisms of toxic action of copper and copper nanoparticles in two Amazon fish species: Dwarf cichlid (Apistogramma agassizii) and cardinal tetra (Paracheirodon axelrodi). Science of the Total Environment, 2018, 630, 1168-1180.	8.0	60
11	Respiratory responses to progressive hypoxia in the Amazonian oscar, Astronotus ocellatus. Respiratory Physiology and Neurobiology, 2008, 162, 109-116.	1.6	59
12	Hypoxia adaptation in fish of the Amazon: a never-ending task. South African Journal of Zoology, 1998, 33, 107-114.	0.5	56
13	Gill morphology and acute hypoxia: responses of mitochondria-rich, pavement, and mucous cells in the Amazonian oscar (<i>Astronotus ocellatus</i>) and the rainbow trout (<i>Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Journal of Zoology, 2011, 89, 307-324.	1.0	56
14	Rapid regulation of Na+ fluxes and ammonia excretion in response to acute environmental hypoxia in the Amazonian oscar, Astronotus ocellatus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R2048-R2058.	1.8	52
15	Acute hypoxia up-regulates HIF-1Î± and VEGF mRNA levels in Amazon hypoxia-tolerant Oscar (Astronotus) Tj ETQq1 1 0.784314 rgBT /O	2.3	49
16	Interactions between hypoxia tolerance and food deprivation in Amazonian oscars, <i>Astronotus ocellatus</i> (Agassiz). Journal of Experimental Biology, 2013, 216, 4590-600.	1.7	48
17	Changes in ventilation, metabolism, and behaviour, but not bradycardia, contribute to hypoxia survival in two species of Amazonian armoured catfish. Canadian Journal of Zoology, 2003, 81, 272-280.	1.0	45
18	Neuro-oxidative damage and aerobic potential loss of sharks under elevated CO2 and warming. Marine Biology, 2016, 163, 1.	1.5	44

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19	Transcriptome profiling of two Iberian freshwater fish exposed to thermal stress. Journal of Thermal Biology, 2016, 55, 54-61.	2.5	42
20	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 December 2010â€“31 January 2011. Molecular Ecology Resources, 2011, 11, 586-589.	4.8	38
21	Ionoregulatory Aspects of the Osmorespiratory Compromise during Acute Environmental Hypoxia in 12 Tropical and Temperate Teleosts. Physiological and Biochemical Zoology, 2015, 88, 357-370.	1.5	37
22	Rapid regulation of blood parameters under acute hypoxia in the Amazonian fish Prochilodus nigricans. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 184, 125-131.	1.8	34
23	Does hypoxia or different rates of re-oxygenation after hypoxia induce an oxidative stress response in Cyphocharax abramoides (Kner 1858), a Characid fish of the Rio Negro?. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 224, 53-67.	1.8	34
24	Predicting thermal sensitivity of three Amazon fishes exposed to climate change scenarios. Ecological Indicators, 2019, 101, 533-540.	6.3	34
25	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 October 2012â€“30 November 2012. Molecular Ecology Resources, 2013, 13, 341-343.	4.8	33
26	Metabolic rate and thermal tolerance in two congeneric Amazon fishes: Paracheirodon axelrodi Schultz, 1956 and Paracheirodon simulans GÃ©ry, 1963 (Characidae). Hydrobiologia, 2017, 789, 133-142.	2.0	33
27	Large-scale SNP discovery and construction of a high-density genetic map of Colossoma macropomum through genotyping-by-sequencing. Scientific Reports, 2017, 7, 46112.	3.3	32
28	Intracellular Glucose and Binding of Hexokinase and Phosphofructokinase to Particulate Fractions Increase under Hypoxia in Heart of the Amazonian Armored Catfish (<i>Liposarcus pardalis</i>). Physiological and Biochemical Zoology, 2007, 80, 542-550.	1.5	30
29	Loss of genetic diversity in farmed populations of <i>Colossoma macropomum</i> estimated by microsatellites. Animal Genetics, 2016, 47, 373-376.	1.7	30
30	Activity levels of enzymes of energy metabolism in heart and red muscle are higher in north-temperate-zone than in Amazonian teleosts. Canadian Journal of Zoology, 1999, 77, 690-696.	1.0	29
31	Gut transport characteristics in herbivorous and carnivorous serrasalmid fish from ion-poor Rio Negro water. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 225-241.	1.5	29
32	Air breathing and aquatic gas exchange during hypoxia in armoured catfish. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2017, 187, 117-133.	1.5	27
33	Metabolic and Physiological Adjustments to Low Oxygen and High Temperature in Fishes of the Amazon. Fish Physiology, 2005, , 443-500.	0.8	26
34	Copper sensitivity of wild ornamental fish of the Amazon. Ecotoxicology and Environmental Safety, 2009, 72, 693-698.	6.0	26
35	Anoxia- and hypoxia-induced expression of LDH-A* in the Amazon Oscar, Astronotus crassipinis. Genetics and Molecular Biology, 2011, 34, 315-322.	1.3	26
36	The influence of lifestyle and swimming behavior on metabolic rate and thermal tolerance of twelve Amazon forest stream fish species. Journal of Thermal Biology, 2018, 72, 148-154.	2.5	26

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37	Adaptive Features of Amazon Fishes: Blood Characteristics of CurimatÃ£ (Prochilodus cf. nigricans,) Tj ETQq1 1 0.784314 rgBT /Overl	1.5	25
38	Oxygen-dependent distinct expression of hif-1Î± gene in aerobic and anaerobic tissues of the Amazon Oscar, Astronotus crassipinnis. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2019, 227, 31-38.	1.6	25
39	Carbohydrate management, anaerobic metabolism, and adenosine levels in the armoured catfish,Liposarcus pardalis (castelnau), during hypoxia. Journal of Experimental Zoology Part A, Comparative Experimental Biology, 2006, 305A, 363-375.	1.3	23
40	Exposure to waterborne copper and high temperature induces the formation of reactive oxygen species and causes mortality in the Amazonian fish Hoplosternum littorale. Hydrobiologia, 2017, 789, 157-166.	2.0	21
41	The Role of Size in Synchronous Air Breathing of<i>Hoplosternum littorale</i>. Physiological and Biochemical Zoology, 2009, 82, 625-634.	1.5	20
42	The transition from water-breathing to air-breathing is associated with a shift in ion uptake from gills to gut: a study of two closely related erythrinid teleosts, Hoplerythrinus unitaeniatus and Hoplias malabaricus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 431-445.	1.5	20
43	Adaptative features of amazon fishes: Hemoglobins, hematology, intraerythrocytic phosphates and whole blood Bohr effect of Pterygoplichthys multiradiatus (Siluriformes). Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1990, 97, 435-440.	0.2	18
44	Gill paracellular permeability and the osmorespiratory compromise during exercise in the hypoxia-tolerant Amazonian oscar (Astronotus ocellatus). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 741-754.	1.5	18
45	Different ecophysiological responses of freshwater fish to warming and acidification. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 216, 34-41.	1.8	18
46	Gene expression, genotoxicity, and physiological responses in an Amazonian fish, Colossoma macropomum (CUVIER 1818), exposed to RoundupÂ® and subsequent acute hypoxia. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 222, 49-58.	2.6	17
47	Tropical Environment. Fish Physiology, 2005, 21, 1-45.	0.8	16
48	Ras oncogene and Hypoxia-inducible factor-1 alpha (hif-1Î±) expression in the Amazon fish Colossoma macropomum (Cuvier, 1818) exposed to benzo[a]pyrene.. Genetics and Molecular Biology, 2017, 40, 491-501.	1.3	16
49	Genomeâ€wide association study reveals genes associated with the absence of intermuscular bones in tambaqui (Colossoma macropomum). Animal Genetics, 2020, 51, 899-909.	1.7	16
50	Karyological, biochemical, and physiological aspects of Callophysus macropterus (Siluriformes,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 Biological Research, 1998, 31, 1449-1458.	1.5	15
51	Protein synthesis is lowered by 4EBP1 and eIF2-Î± signaling while protein degradation may be maintained in fasting, hypoxic Amazonian cichlid, <i>Astronotus ocellatus</i>. Journal of Experimental Biology, 2018, 221, .	1.7	15
52	Validation of a suite of biomarkers of fish health in the tropical bioindicator species, tambaqui () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	6.3	15
53	Protein analysis and gene expression indicate differential vulnerability of Iberian fish species under a climate change scenario. PLoS ONE, 2017, 12, e0181325.	2.5	15
54	Biological aspects of Amazonian fishes. Hemoglobin, hematology, intraerythrocytic phosphates, and whole blood Bohr effect of Mylossoma duriventris. Canadian Journal of Zoology, 1987, 65, 1805-1811.	1.0	14

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55	Evolutionary trends of LDH isozymes in fishes. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1993, 105, 21-28.	0.2	14
56	How will farmed populations of freshwater fish deal with the extreme climate scenario in 2100? Transcriptional responses of Colossoma macropomum from two Brazilian climate regions. Journal of Thermal Biology, 2020, 89, 102487.	2.5	14
57	Climate vulnerability of South American freshwater fish: Thermal tolerance and acclimation. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2021, 335, 723-734.	1.9	14
58	Histochemistry and functional organization of the dorsal skin of Ancistrus dolichopterus (Siluriformes: Loricariidae). Neotropical Ichthyology, 2010, 8, 877-884.	1.0	13
59	Specialized metabolism and biochemical suppression during aestivation of the extant South American lungfish --<FONT FACE=Symbol></FONT>Lepidosiren paradoxa. Brazilian Journal of Biology, 2002, 62, 495-501.	0.9	12
60	Mitochondrial KATP channels and sarcoplasmic reticulum influence cardiac force development under anoxia in the Amazonian armored catfish Liposarcus pardalis. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 134, 441-448.	1.8	12
61	Chromosomal polymorphism in Steindachneridion melanodermatum Garavello, 2005 (Siluriformes,) Tj ETQq1 1 0.784314 rgBT /Overlo Biology and Fisheries, 2011, 21, 497-508.	4.9	12
62	Influence of the natural Rio Negro water on the toxicological effects of a crude oil and its chemical dispersion to the Amazonian fish Colossoma macropomum. Environmental Science and Pollution Research, 2016, 23, 19764-19775.	5.3	12
63	Inositol pentaphosphate in the erythrocytes of an Amazonian fish, the pirarucu (Arapaima gigas). Canadian Journal of Zoology, 1992, 70, 852-855.	1.0	11
64	Environmental disturbances and fishes in the Amazon. Journal of Fish Biology, 2016, 89, 192-193.	1.6	11
65	Biomarker responses and PAH ratios in fish inhabiting an estuarine urban waterway. Environmental Toxicology, 2017, 32, 2305-2315.	4.0	11
66	CaracterizaciÃ³n de la actividad piscÃcola en las meso regiones del estado del amazonas, amazonÃa brasileÃ±a. Revista Colombiana De Ciencia Animal Recia, 2012, 4, 154.	0.2	11
67	Ion fluxes and hematological parameters of two teleosts from the Rio Negro, Amazon, exposed to hypoxia. Brazilian Journal of Biology, 2008, 68, 571-575.	0.9	10
68	Genetic Diversity in <i>Cichla monoculus</i> (Spix and Agassiz, 1931) Populations: Implications for Management and Conservation. American Journal of Environmental Sciences, 2012, 8, 35-41.	0.5	9
69	<i>In vitro</i> effects of increased temperature and decreased <scp>pH</scp> on blood oxygen affinity of 10 fish species of the <scp>A</scp>mazon. Journal of Fish Biology, 2016, 89, 264-279.	1.6	9
70	Genetic basis of <i>Colossoma macropomum</i> broodstock: Perspectives for an improvement program. Journal of the World Aquaculture Society, 2019, 50, 633-644.	2.4	9
71	Isolation of novel microsatellite markers for tambaqui (Colossoma macropomum, Cuvier 1818), an important freshwater fish of the Amazon. Conservation Genetics Resources, 2012, 4, 197-200.	0.8	8
72	Recovery of fat snook, Centropomus parallelus (Teleostei: Perciformes) after subchronic exposure to copper. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2013, 157, 306-309.	2.6	8

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73	Differential survivorship of congeneric ornamental fishes under forecasted climate changes are related to anaerobic potential. Genetics and Molecular Biology, 2018, 41, 107-118.	1.3	8
74	Ecological adaptations of Amazonian fishes acquired during evolution under environmental variations in dissolved oxygen: A review of responses to hypoxia in fishes, featuring the hypoxiaâ€tolerant<i>Astronotus</i>spp.. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2021, 335, 771-786.	1.9	7
75	Electrophoretic patterns of hemoglobin and oxygen binding properties of blood of Anostomidae fishes from Parana-Pardo-Grande hydrographic basin (SÃ£o Paulo State, Brazil). The Journal of Experimental Zoology, 1985, 235, 21-26.	1.4	6
76	O uso do Ã³leo de cravo como anestÃ©sico em juvenis avanÃ§ados de tilÃ¡pia do Nilo (Oreochromis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.3	6
77	Transcriptomic evidences of local thermal adaptation for the native fish Colossoma macropomum (Cuvier, 1818). Genetics and Molecular Biology, 2020, 43, e20190377.	1.3	6
78	Organismos aquÃ¡ticos e de Ã¡reas Ãºmidas em uma AmazÃ´nia em transiÃ§Ã£o. CiÃªncia E Cultura, 2014, 66, 34-40.	0.0	6
79	LDH isozymes in amazon fishâ€"III. Distribution patterns and functional properties in Serrasalmidae (Teleostei: Ostariophysi). Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 103, 119-125.	0.2	5
80	No Co-Expression of LDH-C In Amazon Cichlids. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 117, 315-319.	1.6	5
81	Metabolic adjustments in Satanoperca aff. jurupari (Perciformes: Cichlidae). Genetics and Molecular Biology, 2003, 26, 27-32.	1.3	5
82	Isolation and characterization of microsatellite markers for Cichla monoculus (Agassiz, 1831), an important freshwater fish in the Amazon. Conservation Genetics Resources, 2010, 2, 215-218.	0.8	5
83	Genetic variability of wild and captivity populations of Colossoma macropomum (Cuvier, 1818). Acta Scientiarum - Biological Sciences, 2012, 34, .	0.3	5
84	Ecophysiology, genotoxicity, histopathology, and gene responses of naphthalene injected Colossoma macropomum (Cuvier, 1818) exposed to hypoxia. Genetics and Molecular Biology, 2019, 42, 411-424.	1.3	5
85	Biological aspects of amazonian fishes I. Red blood cell phosphates of schooling fishes (genus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Biochemistry, 1984, 78, 215-217.	0.2	4
86	LDH isozymes in amazon Fishâ€"I. Electrophoretic studies on two species from serrasalmidae family: Mylossoma duriventris and Colossoma macropomum. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1990, 95, 77-84.	0.2	4
87	LDH isozymes in amazon fishâ€"II. Temperature and pH effects on LDH kinetic properties from Mylossoma duriventris and Colossoma macropomum (Serrasalmidae). Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1991, 98, 79-86.	0.2	4
88	Malate dehydrogenase (sMDH) in Amazon cichlid fishes: evolutionary features. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 103, 939-943.	0.2	4
89	Development and characterization of microsatellite markers in Astronotus crassipinis (Heckel, 1840). Conservation Genetics Resources, 2009, 1, 277-280.	0.8	4
90	Isolation of microsatellite loci in the Amazon sailfin catfish Pterygoplichlhys pardalis (Castelneau,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	4

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91	Isolation and development microsatellite markers in the Pygocentrus nattereri (Kner, 1858) (Characiformes, Serrasalminae), an important freshwater fish in the Amazon. Conservation Genetics Resources, 2012, 4, 271-274.	0.8	4
92	Genomic Resources Notes accepted 1 April 2015 â€“ 31 May 2015. Molecular Ecology Resources, 2015, 15, 1256-1257.	4.8	4
93	Development and characterization of microsatellite loci in Amazonian dwarf cichlids Apistogramma spp. (Perciformes: Cichlidae): Uncovering geological influence on Amazonian fish population. Journal of Applied Ichthyology, 2017, 33, 1196-1199.	0.7	4
94	Metabolic adjustment of Pyrrhulina aff. brevis exposed to different climate change scenarios. Journal of Thermal Biology, 2020, 92, 102657.	2.5	4
95	Hemoglobin, hematology, intraerythrocytic phosphates and whole blood Bohr effect from lotic and lentic Hypostomus regani populations (SÃ£o Paulo-Brasil). Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1985, 80, 737-741.	0.2	3
96	Biological aspects of Amazonian fishesâ€"VI. Hemoglobins and whole blood properties of Semaprochilodus species (prochilodontidae) at two phases of migration. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1986, 83, 659-667.	0.2	3
97	Interspecific dietary diversity has little influence on pathways of glucose metabolism in liver and heart of piranhas and pacus (family Serrasalmidae). Hydrobiologia, 2017, 789, 107-121.	2.0	3
98	Acclimation to hypercarbia protects cardiac contractility and alters tissue carbohydrate metabolism in the Amazonian armored catfish Pterygoplichthys pardalis. Hydrobiologia, 2017, 789, 91-106.	2.0	3
99	Effects of water-accommodated fraction of diesel fuel on seahorse (Hippocampus reidi) biomarkers. Aquatic Toxicology, 2019, 217, 105353.	4.0	3
100	Lactate dehydrogenase (LDH) in 27 species of amazon fish: Adaptive and evolutive aspects. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1991, 100, 391-398.	0.2	2
101	Genetic differentiation in redâ€bellied piranha populations (<i>Pygocentrus nattereri</i>, Kner, 1858) from the SolimÃµesâ€Amazonas River. Ecology and Evolution, 2016, 6, 4203-4213.	1.9	2
102	The effects of dissolved organic carbon on the reflex ventilatory responses of the neotropical teleost (Colossoma macropomum) to hypoxia or hypercapnia. Chemosphere, 2021, 277, 130314.	8.2	2
103	Os legados deixados por Peter Hochachka: o pesquisador, o mestre e o amigo. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2004, 139, 317-320.	1.6	1
104	Amazonia: Water Resources and Sustainability. , 2017, , 73-88.		1
105	Insight to new genes with sexâ€biased to bonyâ€tongued fishes: Differentially expressed genes in adult individuals of <i>Arapaima gigas</i> revealed by RNAâ€Seq. Aquaculture Research, 2021, 52, 5617-5629.	1.8	1
106	Influence of hypoxia on biochemical aspects and on expression of genes related to oxygen-homeostasis of the Amazonian cichlid Astronotus ocellatus (Agassiz, 1831). Genetics and Molecular Biology, 2021, 44, e20210127.	1.3	1
107	Chapter 23: Impacts of deforestation and climate change on biodiversity, ecological processes, and environmental adaptation. , 2021, , .		1
108	15.1. Biochemical physiology of hypoxia in fish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 148, S60.	1.8	0

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109	Boron Oxide Nanoparticles Exhibit Minor, Species-Specific Acute Toxicity to North-Temperate and Amazonian Freshwater Fishes. Frontiers in Bioengineering and Biotechnology, 2021, 9, 689933.	4.1	0