Tyson J Maccormack

List of Publications by Year
in descending order

59 papers	3,281 citations	304701 22 h-index	155644 55 g-index
61 all docs	61 docs citations	61 times ranked	4949 citing authors

#	Article	IF	Citations
1	Emerging threats and persistent conservation challenges for freshwater biodiversity. Biological Reviews, 2019, 94, 849-873.	10.4	1,766
2	Widespread Nanoparticle-Assay Interference: Implications for Nanotoxicity Testing. PLoS ONE, 2014, 9, e90650.	2.5	225
3	Mechanistic insights into the effect of nanoparticles on zebrafish hatch. Nanotoxicology, 2014, 8, 295-304.	3.0	83
4	The importance of incorporating natural thermal variation when evaluating physiological performance in wild species. Journal of Experimental Biology, 2018, 221, .	1.7	81
5	Inhibition of enzyme activity by nanomaterials: Potential mechanisms and implications for nanotoxicity testing. Nanotoxicology, 2012, 6, 514-525.	3.0	78
6	Silver Nanoparticles Inhibit Sodium Uptake in Juvenile Rainbow Trout (Oncorhynchus mykiss). Environmental Science & Technology, 2012, 46, 10295-10301.	10.0	75
7	Estimates of metabolic rate and major constituents of metabolic demand in fishes under field conditions: Methods, proxies, and new perspectives. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 202, 10-22.	1.8	70
8	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
9	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
10	Large-Scale Proteome Profile of the Zebrafish (Danio rerio) Gill for Physiological and Biomarker Discovery Studies. Zebrafish, 2009, 6, 229-238.	1.1	45
11	Cardiorespiratory toxicity of environmentally relevant zinc oxide nanoparticles in the freshwater fishCatostomus commersonii. Nanotoxicology, 2015, 9, 861-870.	3.0	43
12	Cloning of GLUT3 cDNA from Atlantic cod (Gadus morhua) and expression of GLUT1 and GLUT3 in response to hypoxia. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2005, 1730, 245-252.	2.4	42
13	The regulation and importance of glucose uptake in the isolated Atlantic cod heart: rate-limiting steps and effects of hypoxia. Journal of Experimental Biology, 2004, 207, 1865-1874.	1.7	41
14	Inhibition of Transient Receptor Potential Vanilloid 6 channel, elevated in human ovarian cancers, reduces tumour growth in a xenograft model. Journal of Cancer, 2018, 9, 3196-3207.	2.5	39
15	Identifying and Predicting Biological Risks Associated With Manufactured Nanoparticles in Aquatic Ecosystems. Journal of Industrial Ecology, 2008, 12, 286-296.	5.5	37
16	Physiological responses to a short-term, environmentally realistic, acute heat stress in Atlantic salmon,Salmo salar. Facets, 2017, 2, 330-341.	2.4	36
17	Sequence and expression of a constitutive, facilitated glucose transporter (GLUT1) in Atlantic cod Gadus morhua. Journal of Experimental Biology, 2004, 207, 4697-4706.	1.7	35
18	Intracellular Glucose and Binding of Hexokinase and Phosphofructokinase to Particulate Fractions Increase under Hypoxia in Heart of the Amazonian Armored Catfish (Liposarcus pardalis). Physiological and Biochemical Zoology, 2007, 80, 542-550.	1.5	30

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19	Enzymatic capacities of metabolic fuel use in cuttlefish (Sepia officinalis) and responses to food deprivation: insight into the metabolic organization and starvation survival strategy of cephalopods. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 711-725.	1.5	29
20	Ecophysiological perspectives on engineered nanomaterial toxicity in fish and crustaceans. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2017, 193, 30-41.	2.6	25
21	Diel cycling hypoxia enhances hypoxia-tolerance in rainbow trout (Oncorhynchus mykiss): evidence of physiological and metabolic plasticity. Journal of Experimental Biology, 2019, 222, .	1.7	25
22	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
23	The impact of hypoxia on in vivo glucose uptake in a hypoglycemic fish, Myoxocephalus scorpius. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R1033-R1042.	1.8	23
24	Zinc oxide nanoparticles trigger cardiorespiratory stress and reduce aerobic scope in the white sucker, Catostomus commersonii. NanoImpact, 2016, 2, 29-37.	4.5	21
25	Do prior diel thermal cycles influence the physiological response of Atlantic salmon (Salmo) Tj ETQq1 1 0.784314 rgBT /Overlock 1 127-139.	1.4	21
26	Metabolic Adjustments to Short-Term Diurnal Temperature Fluctuation in the Rainbow Trout (Oncorhynchus mykiss). Physiological and Biochemical Zoology, 2016, 89, 498-510.	1.5	20
27	Cardiorespiratory and tissue adenosine responses to hypoxia and reoxygenation in the short-horned sculpin Myoxocephalus scorpius. Journal of Experimental Biology, 2004, 207, 4157-4164.	1.7	18
28	Chaperone roles for TMAO and HSP70 during hyposmotic stress in the spiny dogfish shark (Squalus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Physiology, 2015, 185, 729-740.	1.5	18
29	Hypoxic Induced Decrease in Oxygen Consumption in Cuttlefish (Sepia officinalis) Is Associated with Minor Increases in Mantle Octopine but No Changes in Markers of Protein Turnover. Frontiers in Physiology, 2017, 8, 344.	2.8	17
30	Physiological responses to hypersalinity correspond to nursery ground usage in two inshore shark species (Mustelus antarcticus & Galeorhinus galeus). Journal of Experimental Biology, 2016, 219, 2028-38.	1.7	15
31	Mitochondrial ATP-sensitive K+ channels influence force development and anoxic contractility in a flatfish, yellowtail flounderLimanda ferruginea, but not Atlantic codGadus morhuaheart. Journal of Experimental Biology, 2002, 205, 1411-1418.	1.7	14
32	Synthesis, reactivity, and antimicrobial properties of boron-containing 4-ethyl-3-thiosemicarbazide derivatives. Canadian Journal of Chemistry, 2018, 96, 906-911.	1.1	13
33	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
34	Metabolic rate and rates of protein turnover in food-deprived cuttlefish,Sepia officinalis(Linnaeus 1758). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R1160-R1168.	1.8	12
35	Commentary: Revisiting nanoparticle-assay interference: There's plenty of room at the bottom for misinterpretation. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2021, 255, 110601.	1.6	12
36	Taurine depresses cardiac contractility and enhances systemic heart glucose utilization in the cuttlefish, Sepia officinalis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 215-227.	1.5	11

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37	Taurine protects cardiac contractility in killifish, Fundulus heteroclitus, by enhancing sarcoplasmic reticular Ca2+ cycling. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2018, 188, 89-99.	1.5	11
38	Thermal variation near the thermal optimum does not affect the growth, metabolism or swimming performance in wild Atlantic salmon <scp>Salmo salar</scp>. Journal of Fish Biology, 2021, 98, 1585-1589.	1.6	11
39	Physiological hepatic response to zinc oxide nanoparticle exposure in the white sucker, Catostomus commersonii. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2014, 162, 51-61.	2.6	10
40	Environmentally relevant concentrations of amine-functionalized copper nanoparticles exhibit different mechanisms of bioactivity in Fundulus Heteroclitus in fresh and brackish water. Nanotoxicology, 2017, 11, 1070-1085.	3.0	10
41	Functionalized silver nanoparticles depress aerobic metabolism in the absence of overt toxicity in brackish water killifish, Fundulus heteroclitus. Aquatic Toxicology, 2019, 213, 105221.	4.0	9
42	Cerium oxide nanoparticles exhibit minimal cardiac and cytotoxicity in the freshwater fish Catostomus commersonii. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2016, 181-182, 19-26.	2.6	8
43	Nanoparticulate-specific effects of silver on teleost cardiac contractility. Environmental Pollution, 2018, 237, 721-730.	7.5	8
44	Mitochondrial ATP-sensitive K+ channels influence force development and anoxic contractility in a flatfish, yellowtail flounder Limanda ferruginea, but not Atlantic cod Gadus morhua heart. Journal of Experimental Biology, 2002, 205, 1411-8.	1.7	7
45	Assessment of the toxic potential of engineered metal oxide nanomaterials using an acellular model: citrated rat blood plasma. Toxicology Mechanisms and Methods, 2016, 26, 601-610.	2.7	6
46	REGIONAL DIFFERENCES IN ALLOMETRIC GROWTH IN ATLANTIC CANADIAN LOBSTER (HOMARUS) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	5
47	Emerging Threats to Fishes: Engineered Organic Nanomaterials. Fish Physiology, 2013, , 439-479.	0.8	5
48	Gold nanoparticles partition to and increase the activity of glucose-6-phosphatase in a synthetic phospholipid membrane system. PLoS ONE, 2017, 12, e0183274.	2.5	5
49	Cardioprotective mitochondrial binding by hexokinase I is induced by a hyperoxic acute thermal insult in the rainbow trout (Oncorhynchus mykiss). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 45-52.	1.6	4
50	Reversion to developmental pathways underlies rapid arm regeneration in juvenile European cuttlefish, Sepia officinalis (Linnaeus 1758). Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2019, 332, 113-120.	1.3	4
51	Intracellular taurine deficiency impairs cardiac contractility in rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Systemic, and Environmental Physiology, 2022, 192, 49-60.	1.5	4
52	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
53	Interrelationship Between Contractility, Protein Synthesis and Metabolism in Mantle of Juvenile Cuttlefish (Sepia officinalis). Frontiers in Physiology, 2019, 10, 1051.	2.8	3
54	Charged and Neutral Au Nanoparticles Interact Differently with Langmuir Film-Based Synthetic Membranes: Implications for Nanoparticle Uptake and Membrane Protein Activity. ACS Applied Nano Materials, 2020, 3, 9276-9284.	5.0	3

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55	Synthesis, characterization and antimicrobial properties of lipophilic palladium complexes bearing iminopyridine ligands. Transition Metal Chemistry, 2015, 40, 813-819.	1.4	2
56	Polyvinylpyrolidone-functionalized silver nanoparticles do not affect aerobic performance or fractional rates of protein synthesis in rainbow trout (Oncorhynchus mykiss). Environmental Pollution, 2020, 260, 114044.	7.5	1
57	Contrasting strategies of hypoxic cardiac performance and metabolism in cichlids and armoured catfish. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2021, 335, 787-800.	1.9	1
58	Multiparametric cytotoxicity assessment: the effect of gold nanoparticle ligand functionalization on SKOV3 ovarian carcinoma cell death. Nanotoxicology, 2022, 16, 355-374.	3.0	1
59	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