

# Neal I Callaghan

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

266  
citations

1040056

9  
h-index

940533

16  
g-index

24  
all docs

24  
docs citations

24  
times ranked

483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiorespiratory toxicity of environmentally relevant zinc oxide nanoparticles in the freshwater fish <i>Catostomus commersonii</i> . <i>Nanotoxicology</i> , 2015, 9, 861-870.	3.0	43
2	Enzymatic capacities of metabolic fuel use in cuttlefish ( <i>Sepia officinalis</i> ) and responses to food deprivation: insight into the metabolic organization and starvation survival strategy of cephalopods. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2016, 186, 711-725.	1.5	29
3	Ecophysiological perspectives on engineered nanomaterial toxicity in fish and crustaceans. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017, 193, 30-41.	2.6	25
4	Zinc oxide nanoparticles trigger cardiorespiratory stress and reduce aerobic scope in the white sucker, <i>Catostomus commersonii</i> . <i>NanoImpact</i> , 2016, 2, 29-37.	4.5	21
5	Metabolic Adjustments to Short-Term Diurnal Temperature Fluctuation in the Rainbow Trout ( <i>Oncorhynchus mykiss</i> ). <i>Physiological and Biochemical Zoology</i> , 2016, 89, 498-510.	1.5	20
6	Nanoscale reorganization of sarcoplasmic reticulum in pressure-overload cardiac hypertrophy visualized by dSTORM. <i>Scientific Reports</i> , 2019, 9, 7867.	3.3	15
7	Metabolic rate and rates of protein turnover in food-deprived cuttlefish, <i>Sepia officinalis</i> (Linnaeus 1758). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R1160-R1168.	1.8	12
8	Taurine depresses cardiac contractility and enhances systemic heart glucose utilization in the cuttlefish, <i>Sepia officinalis</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2016, 186, 215-227.	1.5	11
9	Modeling cardiac complexity: Advancements in myocardial models and analytical techniques for physiological investigation and therapeutic development <i>in vitro</i> . <i>APL Bioengineering</i> , 2019, 3, 011501.	6.2	11
10	Physiological hepatic response to zinc oxide nanoparticle exposure in the white sucker, <i>Catostomus commersonii</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014, 162, 51-61.	2.6	10
11	Discovery: Virtual Implementation of Inquiry-Based Remote Learning for Secondary STEM Students During the COVID-19 Pandemic. <i>Biomedical Engineering Education</i> , 2021, 1, 87-94.	0.7	9
12	Cerium oxide nanoparticles exhibit minimal cardiac and cytotoxicity in the freshwater fish <i>Catostomus commersonii</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2016, 181-182, 19-26.	2.6	8
13	Nanoparticulate-specific effects of silver on teleost cardiac contractility. <i>Environmental Pollution</i> , 2018, 237, 721-730.	7.5	8
14	Functional culture and <i>in vitro</i> genetic and small-molecule manipulation of adult mouse cardiomyocytes. <i>Communications Biology</i> , 2020, 3, 229.	4.4	8
15	Assessment of the toxic potential of engineered metal oxide nanomaterials using an acellular model: citrated rat blood plasma. <i>Toxicology Mechanisms and Methods</i> , 2016, 26, 601-610.	2.7	6
16	Enhancing senior high school student engagement and academic performance using an inclusive and scalable inquiry-based program. <i>Npj Science of Learning</i> , 2020, 5, 17.	2.8	6
17	Adrenergic augmentation of cardiac contractility is dependent on PKA-mediated phosphorylation of myosin-binding protein C and troponin I. <i>Journal of Physiology</i> , 2016, 594, 4707-4708.	2.9	5
18	Extracellular matrix stiffness affects contractility in adult rat cardiomyocytes: implications for dynamic nitric oxide signalling and calcium handling. <i>Journal of Physiology</i> , 2017, 595, 5759-5760.	2.9	4

#	ARTICLE	IF	CITATIONS
19	Cardioprotective mitochondrial binding by hexokinase I is induced by a hyperoxic acute thermal insult in the rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2018, 224, 45-52.	1.6	4
20	Reversion to developmental pathways underlies rapid arm regeneration in juvenile European cuttlefish, <i>Sepia officinalis</i> (Linnaeus 1758). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2019, 332, 113-120.	1.3	4
21	Spherical Gold Nanoparticles Impede the Function of Bovine Serum Albumin In vitro: A New Consideration for Studies in Nanotoxicology. <i>Journal of Nanomaterials &amp; Molecular Nanotechnology</i> , 2013, 02, .	0.1	4
22	Interrelationship Between Contractility, Protein Synthesis and Metabolism in Mantle of Juvenile Cuttlefish ( <i>Sepia officinalis</i> ). <i>Frontiers in Physiology</i> , 2019, 10, 1051.	2.8	3
23	Age-dependent effects on sympathetic responsiveness in cardiac action potential conduction and calcium handling. <i>Journal of Physiology</i> , 2018, 596, 4569-4570.	2.9	0