

# Jodie L Rummer

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

3,278  
citations

159585

30  
h-index

189892

50  
g-index

100  
all docs

100  
docs citations

100  
times ranked

3001  
citing authors

#	ARTICLE	IF	CITATIONS
1	A multi-tasking stomach: functional coexistence of acidâ€“peptic digestion and defensive body inflation in three distantly related vertebrate lineages. <i>Biology Letters</i> , 2022, 18, 20210583.	2.3	4
2	Elevating the impact of conservation physiology by building a community devoted to excellence, transparency, ethics, integrity and mutual respect. , 2022, 10, coac015.		1
3	Rapid evolution fuels transcriptional plasticity to ocean acidification. <i>Global Change Biology</i> , 2022, 28, 3007-3022.	9.5	23
4	Diel Rhythm and Thermal Independence of Metabolic Rate in a Benthic Shark. <i>Journal of Biological Rhythms</i> , 2022, 37, 484-497.	2.6	3
5	Regulate or tolerate: Thermal strategy of a coral reef flat resident, the epaulette shark, <i>Hemiscyllium ocellatum</i> . <i>Journal of Fish Biology</i> , 2021, 98, 723-732.	1.6	16
6	Population variation in the thermal response to climate change reveals differing sensitivity in a benthic shark. <i>Global Change Biology</i> , 2021, 27, 108-120.	9.5	20
7	OUP accepted manuscript. , 2021, 9, coaa139.		8
8	Contrasting effects of constant and fluctuating pCO <sub>2</sub> conditions on the exercise physiology of coral reef fishes. <i>Marine Environmental Research</i> , 2021, 163, 105224.	2.5	5
9	Automated flow control of a multi-lane swimming chamber for small fishes indicates species-specific sensitivity to experimental protocols. , 2021, 9, coaa131.		3
10	Thermal acclimation of tropical coral reef fishes to global heat waves. <i>ELife</i> , 2021, 10, .	6.0	20
11	Simulated heatwave and fishing stressors alter corticosteroid and energy balance in neonate blacktip reef sharks, <i>Carcharhinus melanopterus</i> .. , 2021, 9, coab067.		5
12	Short-term impacts of daily feeding on the residency, distribution and energy expenditure of sharks. <i>Animal Behaviour</i> , 2021, 172, 55-71.	1.9	16
13	Species interactions alter the selection of thermal environment in a coral reef fish. <i>Oecologia</i> , 2021, 196, 363-371.	2.0	5
14	Exposure to degraded coral habitat depresses oxygen uptake rate during exercise of a juvenile reef fish. <i>Coral Reefs</i> , 2021, 40, 1361-1367.	2.2	4
15	The influence of habitat association on swimming performance in marine teleost fish larvae. <i>Fish and Fisheries</i> , 2021, 22, 1187-1212.	5.3	13
16	Association between physiological performance and short temporal changes in habitat utilisation modulated by environmental factors. <i>Marine Environmental Research</i> , 2021, 170, 105448.	2.5	4
17	Investigating links between thermal tolerance and oxygen supply capacity in shark neonates from a hyperoxic tropical environment. <i>Science of the Total Environment</i> , 2021, 782, 146854.	8.0	8
18	A lack of red blood cell swelling in five elasmobranch fishes following air exposure and exhaustive exercise. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2021, 258, 110978.	1.8	6

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19	Elasmobranch Responses to Experimental Warming, Acidification, and Oxygen Loss—A Meta-Analysis. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	19
20	Future thermal regimes for epaulette sharks ( <i>Hemiscyllium ocellatum</i> ): growth and metabolic performance cease to be optimal. <i>Scientific Reports</i> , 2021, 11, 454.	3.3	20
21	Enhanced oxygen unloading in two marine percomorph teleosts. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2021, 264, 111101.	1.8	2
22	Swimming performance of marine fish larvae: review of a universal trait under ecological and environmental pressure. <i>Reviews in Fish Biology and Fisheries</i> , 2020, 30, 93-108.	4.9	42
23	Habitat complexity influences selection of thermal environment in a common coral reef fish. , 2020, 8, coaa070.		12
24	Thermal tolerance and hypoxia tolerance are associated in blacktip reef shark ( <i>Carcharhinus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	1.7	20
25	Diel pCO <sub>2</sub> variation among coral reefs and microhabitats at Lizard Island, Great Barrier Reef. <i>Coral Reefs</i> , 2020, 39, 1391-1406.	2.2	17
26	The power struggle: assessing interacting global change stressors via experimental studies on sharks. <i>Scientific Reports</i> , 2020, 10, 19887.	3.3	8
27	Anthropogenic stressors influence reproduction and development in elasmobranch fishes. <i>Reviews in Fish Biology and Fisheries</i> , 2020, 30, 373-386.	4.9	38
28	Beneficial effects of diel CO <sub>2</sub> cycles on reef fish metabolic performance are diminished under elevated temperature. <i>Science of the Total Environment</i> , 2020, 735, 139084.	8.0	8
29	The effects of constant and fluctuating elevated pCO <sub>2</sub> levels on oxygen uptake rates of coral reef fishes. <i>Science of the Total Environment</i> , 2020, 741, 140334.	8.0	8
30	Home range of newborn blacktip reef sharks ( <i>Carcharhinus melanopterus</i> ), as estimated using mark-recapture and acoustic telemetry. <i>Coral Reefs</i> , 2020, 39, 1209-1214.	2.2	9
31	Responses of a coral reef shark acutely exposed to ocean acidification conditions. <i>Coral Reefs</i> , 2020, 39, 1215-1220.	2.2	9
32	Species-specific molecular responses of wild coral reef fishes during a marine heatwave. <i>Science Advances</i> , 2020, 6, eaay3423.	10.3	52
33	Same species, different prerequisites: investigating body condition and foraging success in young reef sharks between an atoll and an island system. <i>Scientific Reports</i> , 2019, 9, 13447.	3.3	14
34	Aerobic performance of two tropical cephalopod species unaltered by prolonged exposure to projected future carbon dioxide levels. , 2019, 7, coz024.		6
35	A negative correlation between behavioural and physiological performance under ocean acidification and warming. <i>Scientific Reports</i> , 2019, 9, 4265.	3.3	28
36	Estimating oxygen uptake rates to understand stress in sharks and rays. <i>Reviews in Fish Biology and Fisheries</i> , 2019, 29, 297-311.	4.9	16

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37	Analysing tropical elasmobranch blood samples in the field: blood stability during storage and validation of the HemoCue® haemoglobin analyser. , 2019, 7, coz081.		10
38	Adaptation and evolutionary responses to high CO2. Fish Physiology, 2019, 37, 369-395.	0.8	6
39	Aquatic acidification: a mechanism underpinning maintained oxygen transport and performance in fish experiencing elevated carbon dioxide conditions. Journal of Experimental Biology, 2018, 221, .	1.7	27
40	Impact of motorboats on fish embryos depends on engine type. , 2018, 6, coy014.		29
41	An interplay between plasticity and parental phenotype determines impacts of ocean acidification on a reef fish. Nature Ecology and Evolution, 2018, 2, 334-342.	7.8	75
42	Absence of cellular damage in tropical newly hatched sharks ( <i>Chiloscyllium plagiosum</i> ) under ocean acidification conditions. Cell Stress and Chaperones, 2018, 23, 837-846.	2.9	22
43	Too hot to handle? Using movement to alleviate effects of elevated temperatures in a benthic elasmobranch, <i>Hemiscyllium ocellatum</i> . Marine Biology, 2018, 165, 1.	1.5	29
44	Dead tired: evaluating the physiological status and survival of neonatal reef sharks under stress. , 2018, 6, coy053.		28
45	The emergence emergency: A mudskipper's response to temperatures. Journal of Thermal Biology, 2018, 78, 65-72.	2.5	2
46	Correlated Effects of Ocean Acidification and Warming on Behavioral and Metabolic Traits of a Large Pelagic Fish. Diversity, 2018, 10, 35.	1.7	41
47	Climate change and the evolution of reef fishes: past and future. Fish and Fisheries, 2017, 18, 22-39.	5.3	45
48	Biological responses of sharks to ocean acidification. Biology Letters, 2017, 13, 20160796.	2.3	69
49	How experimental biology and ecology can support evidence-based decision-making in conservation: avoiding pitfalls and enabling application. , 2017, 5, cox043.		48
50	Species-specific impacts of suspended sediments on gill structure and function in coral reef fishes. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171279.	2.6	34
51	Oil exposure disrupts early life-history stages of coral reef fishes via behavioural impairments. Nature Ecology and Evolution, 2017, 1, 1146-1152.	7.8	60
52	Validation of a portable, waterproof blood pH analyser for elasmobranchs. , 2017, 5, cox012.		8
53	Effects of hypoxia and ocean acidification on the upper thermal niche boundaries of coral reef fishes. Biology Letters, 2017, 13, 20170135.	2.3	38
54	Adapt, move or die – how will tropical coral reef fishes cope with ocean warming?. Global Change Biology, 2017, 23, 566-577.	9.5	79

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55	Conservation physiology and the quest for a "good"™ Anthropocene. , 2017, 5, cox003.		14
56	Physiology can contribute to better understanding, management, and conservation of coral reef fishes. , 2017, 5, cox005.		10
57	What if you can't sense your enemy and your enemy is an invasive predator?. , 2017, 5, cox011.		0
58	Methods matter: considering locomotory mode and respirometry technique when estimating metabolic rates of fishes. , 2016, 4, cow008.		67
59	Foraging behaviour of the epaulette shark <i>Hemiscyllium ocellatum</i> is not affected by elevated CO <sub>2</sub> . ICES Journal of Marine Science, 2016, 73, 633-640.	2.5	43
60	Will ocean acidification affect the early ontogeny of a tropical oviparous elasmobranch ( <i>Hemiscyllium ocellatum</i> )?. , 2016, 4, cow003.		21
61	A framework for understanding climate change impacts on coral reef social-ecological systems. Regional Environmental Change, 2016, 16, 1133-1146.	2.9	35
62	Blacktip reef sharks ( <i>Carcharhinus melanopterus</i> ) show high capacity for wound healing and recovery following injury. , 2015, 3, cov062.		61
63	Root Effect Haemoglobins in Fish May Greatly Enhance General Oxygen Delivery Relative to Other Vertebrates. PLoS ONE, 2015, 10, e0139477.	2.5	55
64	Exposure of clownfish larvae to suspended sediment levels found on the Great Barrier Reef: Impacts on gill structure and microbiome. Scientific Reports, 2015, 5, 10561.	3.3	111
65	Hagfish: Champions of CO <sub>2</sub> tolerance question the origins of vertebrate gill function. Scientific Reports, 2015, 5, 11182.	3.3	31
66	Behavioural thermoregulation in a temperature-sensitive coral reef fish, the five-lined cardinalfish ( <i>Cheilodipterus quinquelineatus</i> ). Coral Reefs, 2015, 34, 1261-1265.	2.2	24
67	Interactive effects of ocean acidification and rising sea temperatures alter predation rate and predator selectivity in reef fish communities. Global Change Biology, 2015, 21, 1848-1855.	9.5	71
68	Function and control of the fish secondary vascular system, a contrast to mammalian lymphatic systems. Journal of Experimental Biology, 2014, 217, 751-7.	1.7	26
69	A product of its environment: the epaulette shark ( <i>Hemiscyllium ocellatum</i> ) exhibits physiological tolerance to elevated environmental CO <sub>2</sub> . , 2014, 2, cou047-cou047.		50
70	Life on the edge: thermal optima for aerobic scope of equatorial reef fishes are close to current day temperatures. Global Change Biology, 2014, 20, 1055-1066.	9.5	206
71	A unique mode of tissue oxygenation and the adaptive radiation of teleost fishes. Journal of Experimental Biology, 2014, 217, 1205-1214.	1.7	65
72	Aerobic scope predicts dominance during early life in a tropical damselfish. Functional Ecology, 2014, 28, 1367-1376.	3.6	104

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73	Behavioural impairment in reef fishes caused by ocean acidification at CO <sub>2</sub> seeps. <i>Nature Climate Change</i> , 2014, 4, 487-492.	18.8	152
74	Alterations in gill structure in tropical reef fishes as a result of elevated temperatures. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2014, 175, 64-71.	1.8	36
75	Species-specific effects of near-future CO <sub>2</sub> on the respiratory performance of two tropical prey fish and their predator. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2013, 166, 482-489.	1.8	62
76	Juvenile Ribbontail Stingray, <i>Taeniura lymma</i> (Forsskål, 1775) (Chondrichthyes, Dasyatidae), demonstrate a unique suite of physiological adaptations to survive hyperthermic nursery conditions. <i>Hydrobiologia</i> , 2013, 701, 37-49.	2.0	35
77	Root Effect Hemoglobin May Have Evolved to Enhance General Tissue Oxygen Delivery. <i>Science</i> , 2013, 340, 1327-1329.	12.6	130
78	Finding the best estimates of metabolic rates in a coral reef fish. <i>Journal of Experimental Biology</i> , 2013, 216, 2103-10.	1.7	150
79	Elevated CO <sub>2</sub> enhances aerobic scope of a coral reef fish. , 2013, 1, cot023-cot023.		70
80	Climate change and the performance of larval coral reef fishes: the interaction between temperature and food availability. , 2013, 1, cot024-cot024.		63
81	Hypoxia tolerance is conserved across genetically distinct sub-populations of an iconic, tropical Australian teleost ( <i>Lates calcarifer</i> ). , 2013, 1, cot029-cot029.		36
82	Compensatory Growth in Juvenile Freshwater Turtles, <i>Chinemys reevesii</i> , Following Feed Deprivation. <i>Journal of the World Aquaculture Society</i> , 2011, 42, 82-89.	2.4	4
83	Plasma-accessible carbonic anhydrase at the tissue of a teleost fish may greatly enhance oxygen delivery: <i>in vitro</i> evidence in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Journal of Experimental Biology</i> , 2011, 214, 2319-2328.	1.7	53
84	BROWN ADIPOSE TISSUE: SPECIAL FAT FOR COLD CRITTERS. <i>Journal of Experimental Biology</i> , 2010, 213, vi-vi.	1.7	0
85	Reduced and reversed temperature dependence of blood oxygenation in an ectothermic scombrid fish: implications for the evolution of regional heterothermy?. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 73-82.	1.5	16
86	HOW WOOLLY MAMMOTH BLOOD CHEATED THE COLD. <i>Journal of Experimental Biology</i> , 2010, 213, v-v.	1.7	0
87	Use it or lose it? Sablefish, <i>Anoplopoma fimbria</i> , a species representing a fifth teleostean group where the $\beta$ NHE associated with the red blood cell adrenergic stress response has been secondarily lost. <i>Journal of Experimental Biology</i> , 2010, 213, 1503-1512.	1.7	21
88	IS IT CHEAPER TO "GROW UP" FAST?. <i>Journal of Experimental Biology</i> , 2010, 213, iv-iv.	1.7	0
89	ION REGULATION DRIVES GILL DEVELOPMENT. <i>Journal of Experimental Biology</i> , 2010, 213, iv-iv.	1.7	0
90	KOMODO DRAGON'S 'PEARLY WHITES' PACK A "3 DEADLY PUNCH. <i>Journal of Experimental Biology</i> , 2009, 212, iv-iv.	1.7	0

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91	A LITTLE STRESS FOR A FETUS GOES A LONG WAY. <i>Journal of Experimental Biology</i> , 2009, 212, v-v.	1.7	0
92	THE REAL TASTE OF VICTORY. <i>Journal of Experimental Biology</i> , 2009, 212, iv-iv.	1.7	0
93	GLOBAL WARMING COULD CANCEL 'JOURNEY OF A THOUSAND MILES'. <i>Journal of Experimental Biology</i> , 2009, 212, v-v.	1.7	0
94	Physiological tolerance to hyperthermia and hypoxia and effects on species richness and distribution of rockpool fishes of Loggerhead Key, Dry Tortugas National Park. <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 371, 155-162.	1.5	13
95	Heat shock protein (Hsp70) induced by a mild heat shock slightly moderates plasma osmolarity increases upon salinity transfer in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2008, 148, 437-444.	2.6	25
96	Blood sampling techniques and storage duration: Effects on the presence and magnitude of the red blood cell $\beta^2$ -adrenergic response in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2006, 144, 188-195.	1.8	31
97	Effects of moderate and substantial hypoxia on erythropoietin levels in rainbow trout kidney and spleen. <i>Journal of Experimental Biology</i> , 2006, 209, 2734-2738.	1.7	123
98	Physiological Effects of Swim Bladder Overexpansion and Catastrophic Decompression on Red Snapper. <i>Transactions of the American Fisheries Society</i> , 2005, 134, 1457-1470.	1.4	122