

# Mark Bayley

## List of Publications by Year in descending order

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106  
papers

4,165  
citations

126907

33  
h-index

133252

59  
g-index

112  
all docs

112  
docs citations

112  
times ranked

4063  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Arapaima gigas</i> maintains gas exchange separation in severe aquatic hypoxia but does not suffer branchial oxygen loss. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	5
2	Striped catfish ( <i>Pangasianodon hypophthalmus</i> ) use air-breathing and aquatic surface respiration when exposed to severe aquatic hypercarbia. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2021, 335, 820-830.	1.9	1
3	Understanding the gastrointestinal physiology and responses to feeding in air-breathing Anabantiform fishes. <i>Journal of Fish Biology</i> , 2020, 96, 986-1003.	1.6	8
4	Effects of temperature on acid-base regulation, gill ventilation and air-breathing in the clown knifefish, <i>Chitala ornata</i> . <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	6
5	Aquaculture of air-breathing fishes. <i>Fish Physiology</i> , 2020, 38, 315-353.	0.8	3
6	Cardiovascular and ventilatory interactions in the facultative air-breathing teleost <i>Pangasianodon hypophthalmus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2019, 189, 425-440.	1.5	8
7	Ventilatory responses of the clown knifefish, <i>Chitala ornata</i> , to arterial hypercapnia remain after gill denervation. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2019, 189, 673-683.	1.5	5
8	Impact and tissue metabolism of nitrite at two acclimation temperatures in striped catfish ( <i>Pangasianodon hypophthalmus</i> ). <i>Aquatic Toxicology</i> , 2019, 212, 154-161.	4.0	7
9	Effect of water pH and calcium on ion balance in five fish species of the Mekong Delta. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2019, 232, 34-39.	1.8	11
10	Effects of lactate ions on the cardiorespiratory system in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Journal of Experimental Biology</i> , 2019, 222, 316, R607-R620.	1.8	11
11	Renal acid excretion contributes to acid-base regulation during hypercapnia in air-exposed swamp eel ( <i>Monopterus albus</i> ). <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	8
12	Learning to Air-Breathe: The First Steps. <i>Physiology</i> , 2019, 34, 14-29.	3.1	41
13	The effects of endogenous and exogenous catecholamines on hypoxic cardiac performance in red-bellied piranhas. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2019, 331, 27-37.	1.9	6
14	Acid-base regulation in the air-breathing swamp eel ( <i>Monopterus albus</i> ) at different temperatures. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	8
15	Air-breathing changes the pattern for temperature-induced pH regulation in a bimodal breathing teleost. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2018, 188, 451-459.	1.5	12
16	Ventilatory responses of the clown knifefish, <i>Chitala ornata</i> , to hypercarbia and hypercapnia. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2018, 188, 581-589.	1.5	8
17	The effects of elevated environmental CO <sub>2</sub> on nitrite uptake in the air-breathing clown knifefish, <i>Chitala ornata</i> . <i>Aquatic Toxicology</i> , 2018, 196, 124-131.	4.0	12
18	Clown knifefish ( <i>Chitala ornata</i> ) oxygen uptake and its partitioning in present and future temperature environments. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2018, 216, 52-59.	1.8	19

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19	Water pH limits extracellular but not intracellular pH compensation in the CO <sub>2</sub> tolerant freshwater fish, <i>Pangasianodon hypophthalmus</i> . <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	9
20	Ánh h <sup>o</sup> á»Ýng cá»Sa ná»ng Á»™ CO <sub>2</sub> cao trong n <sup>o</sup> á»c l <sup>a</sup> n c <sup>h</sup> n bá»ng acid v <sup>à</sup> base cá»Sa l <sup>o</sup> Æ <sup>i</sup> n Á»ng <i>Monopterus albus</i> Chi Khoa Hoc = <i>Journal of Science</i> , 2018, 54(3), 138.	0.1	0
21	Extreme nitrite tolerance in the clown knifefish <i>Chitala ornata</i> is linked to up-regulation of methaemoglobin reductase activity. <i>Aquatic Toxicology</i> , 2017, 187, 9-17.	4.0	20
22	Lactate provides a strong pH-independent ventilatory signal in the facultative air-breathing teleost <i>Pangasianodon hypophthalmus</i> . <i>Scientific Reports</i> , 2017, 7, 6378.	3.3	19
23	Ontogeny and morphometrics of the gill and swim bladder of air-breathing striped catfish <i>Pangasianodon hypophthalmus</i> . <i>Journal of Experimental Biology</i> , 2017, 221, .	1.7	10
24	Gill remodelling and growth rate of striped catfish <i>Pangasianodon hypophthalmus</i> under impacts of hypoxia and temperature. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2017, 203, 288-296.	1.8	40
25	Recovery of blood gases and haematological parameters upon anaesthesia with benzocaine, MS-222 or Aquí-S in the air-breathing catfish <i>Pangasianodon hypophthalmus</i> . <i>Ichthyological Research</i> , 2017, 64, 84-92.	0.8	16
26	Earthworms accumulate alanine in response to drought. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2016, 199, 8-13.	1.8	9
27	Increased temperature tolerance of the air-breathing Asian swamp eel <i>Monopterus albus</i> after high-temperature acclimation is not explained by improved cardiorespiratory performance. <i>Journal of Fish Biology</i> , 2016, 88, 418-432.	1.6	20
28	Measuring oxygen uptake in fishes with bimodal respiration. <i>Journal of Fish Biology</i> , 2016, 88, 206-231.	1.6	24
29	The effect of environmental hypercapnia and size on nitrite toxicity in the striped catfish ( <i>Pangasianodon hypophthalmus</i> ). <i>Aquatic Toxicology</i> , 2016, 176, 151-160.	4.0	21
30	Ambient CO <sub>2</sub> , fish behaviour and altered GABAergic neurotransmission: exploring the mechanism of CO <sub>2</sub> -altered behaviour by taking a hypercapnia dweller down to low CO <sub>2</sub> levels. <i>Journal of Experimental Biology</i> , 2016, 219, 109-118.	1.7	52
31	Does oxygen limit thermal tolerance in arthropods? A critical review of current evidence. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2016, 192, 64-78.	1.8	252
32	Anoxia and Acidosis Tolerance of the Heart in an Air-Breathing Fish ( <i>Pangasianodon hypophthalmus</i> ). <i>Physiological and Biochemical Zoology</i> , 2015, 88, 648-659.	1.5	11
33	Some like it hot: Thermal tolerance and oxygen supply capacity in two eurythermal crustaceans. <i>Scientific Reports</i> , 2015, 5, 10743.	3.3	81
34	High affinity and temperature sensitivity of blood oxygen binding in <i>Pangasianodon hypophthalmus</i> due to lack of chloride-hemoglobin allosteric interaction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R907-R915.	1.8	16
35	High capacity for extracellular acid-base regulation in the air-breathing fish <i>Pangasianodon hypophthalmus</i> . <i>Journal of Experimental Biology</i> , 2015, 218, 1290-4.	1.7	38
36	Accumulation of free amino acids during exposure to drought in three springtail species. <i>Journal of Insect Physiology</i> , 2015, 82, 114-121.	2.0	18

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37	Effects of salinity on osmoregulation, growth and survival in Asian swamp eel ( <i>Monopterus albus</i> ). <i>Journal of Fish Biology</i> , 2014, 84, 1210-1220.	1.8	18
38	Effect of salinity on oxygen consumption in fishes: a review. <i>Journal of Fish Biology</i> , 2014, 84, 1210-1220.	1.6	98
39	Air-breathing fishes. <i>Journal of Fish Biology</i> , 2014, 84, 547-553.	1.6	11
40	High blood oxygen affinity in the air-breathing swamp eel <i>Monopterus albus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2014, 178, 102-108.	1.8	21
41	Air-breathing fishes in aquaculture. What can we learn from physiology?. <i>Journal of Fish Biology</i> , 2014, 84, 705-731.	1.6	58
42	Effects of salinity on standard metabolic rate and critical oxygen tension in the giant freshwater prawn ( <i>Macrobrachium rosenbergii</i> ). <i>Aquaculture Research</i> , 2013, 44, 1259-1265.	1.8	10
43	Oxygen delivery does not limit thermal tolerance in a tropical eurythermal crustacean. <i>Journal of Experimental Biology</i> , 2013, 217, 809-14.	1.7	73
44	Cardiovascular anatomy and cardiac function in the air-breathing swamp eel ( <i>Monopterus albus</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2013, 164, 171-180.	1.8	16
45	Partitioning of oxygen uptake and cost of surfacing during swimming in the air-breathing catfish <i>Pangasianodon hypophthalmus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013, 183, 215-221.	1.5	26
46	Induced cold tolerance mechanisms depend on duration of acclimation in the chill sensitive <i>Folsomia candida</i> (Collembola). <i>Journal of Experimental Biology</i> , 2013, 216, 1991-2000.	1.7	38
47	<i>Protaphorura tricampata</i> , a euedaphic and highly permeable springtail that can sustain activity by osmoregulation during extreme drought. <i>Journal of Insect Physiology</i> , 2013, 59, 1104-1110.	2.0	22
48	Effects of hypoxia on the partitioning of oxygen uptake and the rise in metabolism during digestion in the air-breathing fish <i>Channa striata</i> . <i>Aquaculture</i> , 2012, 364-365, 137-142.	3.5	19
49	Haematological and ion regulatory effects of nitrite in the air-breathing snakehead fish <i>Channa striata</i> . <i>Aquatic Toxicology</i> , 2012, 118-119, 48-53.	4.0	16
50	Ecological and molecular consequences of prolonged drought and subsequent rehydration in <i>Folsomia candida</i> (Collembola). <i>Journal of Insect Physiology</i> , 2012, 58, 130-137.	2.0	13
51	Contributions from population genetics to ecotoxicology and stress ecology in light of transformation to the population genomic era. <i>Archives of Biological Sciences</i> , 2012, 64, 557-565.	0.5	0
52	A telemetry study of swimming depth and oxygen level in a <i>Pangasius</i> pond in the Mekong Delta. <i>Aquaculture</i> , 2011, 315, 410-413.	3.5	30
53	Effects of nitrite exposure on functional haemoglobin levels, bimodal respiration, and swimming performance in the facultative air-breathing fish <i>Pangasianodon hypophthalmus</i> . <i>Aquatic Toxicology</i> , 2011, 104, 86-93.	4.0	45
54	Recovery of reproduction after drought in the soil living <i>Folsomia candida</i> (Collembola). <i>Soil Biology and Biochemistry</i> , 2011, 43, 690-692.	8.8	19

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55	Body metal concentrations and glycogen reserves in earthworms ( <i>Dendrobaena octaedra</i> ) from contaminated and uncontaminated forest soil. <i>Environmental Pollution</i> , 2011, 159, 190-197.	7.5	53
56	Hypoxia tolerance and partitioning of bimodal respiration in the striped catfish ( <i>Pangasianodon</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 <i>Physiology</i> , 2011, 158, 207-214.	1.8	62
57	Autonomic control of the heart in the Asian swamp eel ( <i>Monopterus albus</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2011, 158, 485-489.	1.8	14
58	Interactions between effects of environmental chemicals and natural stressors: A review. <i>Science of the Total Environment</i> , 2010, 408, 3746-3762.	8.0	621
59	Hsp70 expression and metabolite composition in response to short-term thermal changes in <i>Folsomia candida</i> (Collembola). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2010, 157, 177-183.	1.8	25
60	Osmoregulation, growth and moulting cycles of the giant freshwater prawn ( <i>Macrobrachium</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	1.8	33
61	Critical oxygen tension increases during digestion in the perch <i>Perca fluviatilis</i> . <i>Journal of Fish Biology</i> , 2010, 76, 1025-1031.	1.6	29
62	Metabolic Changes during Estivation in the Common Earthworm <i>Aporrectodea caliginosa</i> . <i>Physiological and Biochemical Zoology</i> , 2010, 83, 541-550.	1.5	27
63	Growth rate of mudskipper ( <i>Pseudapocryptes lanceolatus</i> , Bloch 1801) exposed to different salinities. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, S144.	1.8	0
64	Impacts of heavy metals, polyaromatic hydrocarbons, and pesticides on freeze tolerance of the earthworm <i>Dendrobaena octaedra</i> . <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 2341-2347.	4.3	23
65	Changes in Membrane Phospholipids as a Mechanistic Explanation for Decreased Freeze Tolerance in Earthworms Exposed to Sublethal Copper Concentrations. <i>Environmental Science &amp; Technology</i> , 2009, 43, 5495-5500.	10.0	26
66	Synergistic interaction between 4-nonylphenol and high but not low temperatures in <i>Dendrobaena octaedra</i> . <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 10-16.	6.0	20
67	Effects of repeated exposure of diazinon on cholinesterase activity and growth in snakehead fish ( <i>Channa striata</i> ). <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 699-703.	6.0	40
68	Chapter 8 The Effects of Hypoxia On Growth and Digestion. <i>Fish Physiology</i> , 2009, , 361-396.	0.8	41
69	Effects of sublethal concentrations of diazinon on surfacing and hanging behaviors of snakehead <i>Channa striata</i> . <i>Fisheries Science</i> , 2008, 74, 1330-1332.	1.6	1
70	Salinity tolerance of cultured Eurasian perch, <i>Perca fluviatilis</i> L.: Effects on growth and on survival as a function of temperature. <i>Aquaculture</i> , 2008, 277, 282-286.	3.5	53
71	Low impact of metal pollution on genetic variation in the earthworm <i>Dendrobaena octaedra</i> measured by allozymes. <i>Pedobiologia</i> , 2008, 52, 51-60.	1.2	16
72	Brain cholinesterase response in the snakehead fish ( <i>Channa striata</i> ) after field exposure to diazinon. <i>Ecotoxicology and Environmental Safety</i> , 2008, 71, 314-318.	6.0	28

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73	Slow desiccation improves dehydration tolerance and accumulation of compatible osmolytes in earthworm cocoons ( <i>Dendrobaena octaedra</i> Savigny). <i>Journal of Experimental Biology</i> , 2008, 211, 1903-1910.	1.7	26
74	Life-history traits and population growth rate in the laboratory of the earthworm <i>Dendrobaena octaedra</i> cultured in copper-contaminated soil. <i>Applied Soil Ecology</i> , 2007, 35, 46-56.	4.3	23
75	Small <i>Dendrobaena</i> earthworms survive freezing better than large worms. <i>Cryobiology</i> , 2007, 54, 298-300.	0.7	11
76	Determining factors for cryoprotectant accumulation in the freeze-tolerant earthworm, <i>Dendrobaena octaedra</i> . <i>Journal of Experimental Zoology</i> , 2007, 307A, 578-589.	1.2	23
77	Adaptations to overwintering in the earthworm <i>Dendrobaena octaedra</i> : Genetic differences in glucose mobilisation and freeze tolerance. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2640-2650.	8.8	28
78	Does lipophilicity of toxic compounds determine effects on drought tolerance of the soil collembolan <i>Folsomia candida</i> ?. <i>Environmental Pollution</i> , 2006, 144, 808-815.	7.5	25
79	p,p'-DDE fails to reduce the competitive reproductive fitness in Nigerian male guppies. <i>Ecotoxicology and Environmental Safety</i> , 2006, 63, 148-157.	6.0	18
80	Genetic and morphological diversity in populations of <i>Nucella lapillus</i> (L.; neogastropoda) in response to tributyltin contamination. <i>Ecotoxicology and Environmental Safety</i> , 2006, 64, 146-154.	6.0	16
81	Low genetic variation for <i>Dendrobaena octaedra</i> from Greenland compared to populations from Europe and North America: Refuge or selection?. <i>Pedobiologia</i> , 2006, 50, 225-234.	1.2	18
82	Predation of the mite <i>Hypoaspis aculeifer</i> on the springtail <i>Folsomia fimetaria</i> and the influence of sex, size, starvation, and poisoning. <i>Entomologia Experimentalis Et Applicata</i> , 2006, 118, 61-70.	1.4	22
83	SENSITIVITY OF BRAIN CHOLINESTERASE ACTIVITY TO DIAZINON (BASUDIN 50EC) AND FENOBUCARB (BASSA) <i>TJ ETQq1 1 0.784314 rg</i> and <i>Chemistry</i> , 2006, 25, 1418.	4.3	27
84	STRESS SYNERGY BETWEEN ENVIRONMENTALLY REALISTIC LEVELS OF COPPER AND FROST IN THE EARTHWORM <i>DENDROBAENA OCTAEDRA</i> . <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 1462.	4.3	49
85	17 $\beta$ -Ethinylestradiol Reduces the Competitive Reproductive Fitness of the Male Guppy ( <i>Poecilia</i> ) <i>TJ ETQq1 1 0.784314 rgBT /Overlock</i> <i>75</i>	2.7	75
86	A comparison of feeding efficiency and swimming ability of <i>Daphnia magna</i> exposed to cypermethrin. <i>Aquatic Toxicology</i> , 2005, 73, 210-220.	4.0	68
87	The importance of cuticular permeability, osmolyte production and body size for the desiccation resistance of nine species of <i>Collembola</i> . <i>Journal of Insect Physiology</i> , 2004, 50, 5-15.	2.0	84
88	The Effects of Vinclozolin, an Anti-Androgenic Fungicide, on Male Guppy Secondary Sex Characters and Reproductive Success. <i>Biology of Reproduction</i> , 2003, 69, 1951-1956.	2.7	60
89	Supercool or dehydrate? An experimental analysis of overwintering strategies in small permeable arctic invertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5716-5720.	7.1	165
90	Exposure of juvenile guppies to three antiandrogens causes demasculinization and a reduced sperm count in adult males. <i>Aquatic Toxicology</i> , 2002, 56, 227-239.	4.0	166

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91	Dose-response curve modeling of excess mortality caused by two forms of stress. <i>Environmental and Ecological Statistics</i> , 2002, 9, 195-200.	3.5	19
92	Stress synergy between drought and a common environmental contaminant: studies with the collembolan <i>Folsomia candida</i> . <i>Global Change Biology</i> , 2001, 7, 485-494.	9.5	51
93	Enhanced drought tolerance of a soil-dwelling springtail by pre-acclimation to a mild drought stress. <i>Journal of Insect Physiology</i> , 2001, 47, 1021-1027.	2.0	58
94	Drought acclimation confers cold tolerance in the soil collembolan <i>Folsomia candida</i> . <i>Journal of Insect Physiology</i> , 2001, 47, 1197-1204.	2.0	120
95	Water Vapor Absorption in Arthropods by Accumulation of Myoinositol and Glucose. <i>Science</i> , 1999, 285, 1909-1911.	12.6	120
96	Guppy Sexual Behavior as an Effect Biomarker of Estrogen Mimics. <i>Ecotoxicology and Environmental Safety</i> , 1999, 43, 68-73.	6.0	113
97	Animal Locomotor Behaviour as a Health Biomarker of Chemical Stress. <i>Archives of Toxicology Supplement</i> , 1998, , 164-178.	0.7	2
98	Woodlouse locomotor behavior in the assessment of clean and contaminated field sites. <i>Environmental Toxicology and Chemistry</i> , 1997, 16, 2309-2314.	4.3	29
99	Pesticide uptake and locomotor behaviour in the woodlouse: an experimental study employing video tracking and <sup>14</sup> C-labelling. <i>Ecotoxicology</i> , 1996, 5, 35-45.	2.4	25
100	Prolonged effects of the insecticide dimethoate on locomotor behaviour in the woodlouse, <i>Porcellio scaber</i> Latr. (isopoda). <i>Ecotoxicology</i> , 1995, 4, 79-90.	2.4	27
101	The effects of sublethal dimethoate exposure on the locomotor behavior of the collembolan <i>Folsomia candida</i> (Isotomidae). <i>Environmental Toxicology and Chemistry</i> , 1995, 14, 1587-1590.	4.3	37
102	Elevated Copper Levels during Larval Development Cause Altered Locomotor Behavior in the Adult Carabid Beetle <i>Pterostichus cupreus</i> L. (Coleoptera: Carabidae). <i>Ecotoxicology and Environmental Safety</i> , 1995, 32, 166-170.	6.0	43
103	THE EFFECTS OF SUBLETHAL DIMETHOATE EXPOSURE ON THE LOCOMOTOR BEHAVIOR OF THE COLLEMBOLAN <i>FOLSOMIA CANDIDA</i> (ISOTOMIDAE). <i>Environmental Toxicology and Chemistry</i> , 1995, 14, 1587.	4.3	14
104	Quantitative analysis of spider locomotion employing computer-automated video tracking. <i>Physiology and Behavior</i> , 1993, 54, 83-90.	2.1	33
105	Effects of the Pyrethroid Insecticide Cypermethrin on the Locomotor Activity of the Wolf Spider <i>Pardosa amentata</i> : Quantitative Analysis Employing Computer-Automated Video Tracking. <i>Ecotoxicology and Environmental Safety</i> , 1993, 26, 138-152.	6.0	52
106	Interactions between cold, desiccation and environmental toxins. , 0, , 166-188.		36