Mark Bayley

List of Publications by Year
in descending order

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106	4,165	126907	133252
papers	citations	33 h-index	59 g-index

112	112	112	4063
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interactions between effects of environmental chemicals and natural stressors: A review. Science of the Total Environment, 2010, 408, 3746-3762.	8.0	621
2	Does oxygen limit thermal tolerance in arthropods? A critical review of current evidence. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 192, 64-78.	1.8	252
3	Exposure of juvenile guppies to three antiandrogens causes demasculinization and a reduced sperm count in adult males. Aquatic Toxicology, 2002, 56, 227-239.	4.0	166
4	Supercool or dehydrate? An experimental analysis of overwintering strategies in small permeable arctic invertebrates. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5716-5720.	7.1	165
5	Water Vapor Absorption in Arthropods by Accumulation of Myoinositol and Glucose. Science, 1999, 285, 1909-1911.	12.6	120
6	Drought acclimation confers cold tolerance in the soil collembolan Folsomia candida. Journal of Insect Physiology, 2001, 47, 1197-1204.	2.0	120
7	Guppy Sexual Behavior as an Effect Biomarker of Estrogen Mimics. Ecotoxicology and Environmental Safety, 1999, 43, 68-73.	6.0	113
8	Effect of salinity on oxygen consumption in fishes: a review. Journal of Fish Biology, 2014, 84, 1210-1220.	1.6	98
9	The importance of cuticular permeability, osmolyte production and body size for the desiccation resistance of nine species of Collembola. Journal of Insect Physiology, 2004, 50, 5-15.	2.0	84
10	Some like it hot: Thermal tolerance and oxygen supply capacity in two eurythermal crustaceans. Scientific Reports, 2015, 5, 10743.	3.3	81
11	17Î±-Ethinylestradiol Reduces the Competitive Reproductive Fitness of the Male Guppy (Poecilia) Tj ETQq1 1 0.784314 rgBT /Overlock	2.7	75
12	Oxygen delivery does not limit thermal tolerance in a tropical eurythermal crustacean. Journal of Experimental Biology, 2013, 217, 809-14.	1.7	73
13	A comparison of feeding efficiency and swimming ability of Daphnia magna exposed to cypermethrin. Aquatic Toxicology, 2005, 73, 210-220.	4.0	68
14	Hypoxia tolerance and partitioning of bimodal respiration in the striped catfish (Pangasianodon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 Physiology, 2011, 158, 207-214.	1.8	62
15	The Effects of Vinclozolin, an Anti-Androgenic Fungicide, on Male Guppy Secondary Sex Characters and Reproductive Success1. Biology of Reproduction, 2003, 69, 1951-1956.	2.7	60
16	Enhanced drought tolerance of a soil-dwelling springtail by pre-acclimation to a mild drought stress. Journal of Insect Physiology, 2001, 47, 1021-1027.	2.0	58
17	Airâ€breathing fishes in aquaculture. What can we learn from physiology?. Journal of Fish Biology, 2014, 84, 705-731.	1.6	58
18	Salinity tolerance of cultured Eurasian perch, Perca fluviatilis L.: Effects on growth and on survival as a function of temperature. Aquaculture, 2008, 277, 282-286.	3.5	53

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19	Body metal concentrations and glycogen reserves in earthworms (Dendrobaena octaedra) from contaminated and uncontaminated forest soil. Environmental Pollution, 2011, 159, 190-197.	7.5	53
20	Effects of the Pyrethroid Insecticide Cypermethrin on the Locomotor Activity of the Wolf Spider Pardosa amentata: Quantitative Analysis Employing Computer-Automated Video Tracking. Ecotoxicology and Environmental Safety, 1993, 26, 138-152.	6.0	52
21	Ambient CO2, fish behaviour and altered GABAergic neurotransmission: exploring the mechanism of CO2-altered behaviour by taking a hypercapnia dweller down to low CO2 levels. Journal of Experimental Biology, 2016, 219, 109-118.	1.7	52
22	Stress synergy between drought and a common environmental contaminant: studies with the collembolan Folsomia candida. Global Change Biology, 2001, 7, 485-494.	9.5	51
23	STRESS SYNERGY BETWEEN ENVIRONMENTALLY REALISTIC LEVELS OF COPPER AND FROST IN THE EARTHWORM DENDROBAENA OCTAEDRA. Environmental Toxicology and Chemistry, 2005, 24, 1462.	4.3	49
24	Effects of nitrite exposure on functional haemoglobin levels, bimodal respiration, and swimming performance in the facultative air-breathing fish Pangasianodon hypophthalmus. Aquatic Toxicology, 2011, 104, 86-93.	4.0	45
25	Elevated Copper Levels during Larval Development Cause Altered Locomotor Behavior in the Adult Carabid Beetle Pterostichus cupreus L. (Coleoptera: Carabidae). Ecotoxicology and Environmental Safety, 1995, 32, 166-170.	6.0	43
26	Chapter 8 The Effects of Hypoxia On Growth and Digestion. Fish Physiology, 2009, , 361-396.	0.8	41
27	Learning to Air-Breathe: The First Steps. Physiology, 2019, 34, 14-29.	3.1	41
28	Effects of repeated exposure of diazinon on cholinesterase activity and growth in snakehead fish (Channa striata). Ecotoxicology and Environmental Safety, 2009, 72, 699-703.	6.0	40
29	Gill remodelling and growth rate of striped catfish Pangasianodon hypophthalmus under impacts of hypoxia and temperature. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 203, 288-296.	1.8	40
30	Induced cold tolerance mechanisms depend on duration of acclimation in the chill sensitive Folsomia candida (Collembola). Journal of Experimental Biology, 2013, 216, 1991-2000.	1.7	38
31	High capacity for extracellular acid-base regulation in the air-breathing fishPangasianodon hypophthalmus. Journal of Experimental Biology, 2015, 218, 1290-4.	1.7	38
32	The effects of sublethal dimethoate exposure on the locomotor behavior of the collembolanFolsomia candida(Isotomidae). Environmental Toxicology and Chemistry, 1995, 14, 1587-1590.	4.3	37
33	Interactions between cold, desiccation and environmental toxins. , 0, , 166-188.		36
34	Quantitative analysis of spider locomotion employing computer-automated video tracking. Physiology and Behavior, 1993, 54, 83-90.	2.1	33
35	Osmoregulation, growth and moulting cycles of the giant freshwater prawn (Macrobrachium) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	33
36	A telemetry study of swimming depth and oxygen level in a Pangasius pond in the Mekong Delta. Aquaculture, 2011, 315, 410-413.	3.5	30

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37	Woodlouse locomotor behavior in the assessment of clean and contaminated field sites. Environmental Toxicology and Chemistry, 1997, 16, 2309-2314.	4.3	29
38	Critical oxygen tension increases during digestion in the perch Perca fluviatilis. Journal of Fish Biology, 2010, 76, 1025-1031.	1.6	29
39	Adaptations to overwintering in the earthworm Dendrobaena octaedra: Genetic differences in glucose mobilisation and freeze tolerance. Soil Biology and Biochemistry, 2007, 39, 2640-2650.	8.8	28
40	Brain cholinesterase response in the snakehead fish (Channa striata) after field exposure to diazinon. Ecotoxicology and Environmental Safety, 2008, 71, 314-318.	6.0	28
41	Prolonged effects of the insecticide dimethoate on locomotor behaviour in the woodlouse, Porcellio scaber Latr. (isopoda). Ecotoxicology, 1995, 4, 79-90.	2.4	27
42	SENSITIVITY OF BRAIN CHOLINESTERASE ACTIVITY TO DIAZINON (BASUDIN 50EC) AND FENOBUCARB (BASSA) Tj ETQq0 0 0 rgBT /Over and Chemistry, 2006, 25, 1418.	4.3	27
43	Metabolic Changes during Estivation in the Common EarthwormAporrectodea caliginosa. Physiological and Biochemical Zoology, 2010, 83, 541-550.	1.5	27
44	Slow desiccation improves dehydration tolerance and accumulation of compatible osmolytes in earthworm cocoons (Dendrobaena octaedraSavigny). Journal of Experimental Biology, 2008, 211, 1903-1910.	1.7	26
45	Changes in Membrane Phospholipids as a Mechanistic Explanation for Decreased Freeze Tolerance in Earthworms Exposed to Sublethal Copper Concentrations. Environmental Science & Technology, 2009, 43, 5495-5500.	10.0	26
46	Partitioning of oxygen uptake and cost of surfacing during swimming in the air-breathing catfish Pangasianodon hypophthalmus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2013, 183, 215-221.	1.5	26
47	Pesticide uptake and locomotor behaviour in the woodlouse: an experimental study employing video tracking and 14C-labelling. Ecotoxicology, 1996, 5, 35-45.	2.4	25
48	Does lipophilicity of toxic compounds determine effects on drought tolerance of the soil collembolan Folsomia candida?. Environmental Pollution, 2006, 144, 808-815.	7.5	25
49	Hsp70 expression and metabolite composition in response to short-term thermal changes in Folsomia candida (Collembola). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 157, 177-183.	1.8	25
50	Measuring oxygen uptake in fishes with bimodal respiration. Journal of Fish Biology, 2016, 88, 206-231.	1.6	24
51	Life-history traits and population growth rate in the laboratory of the earthworm Dendrobaena octaedra cultured in copper-contaminated soil. Applied Soil Ecology, 2007, 35, 46-56.	4.3	23
52	Determining factors for cryoprotectant accumulation in the freezeâ€tolerant earthworm, Dendrobaena octaedra. Journal of Experimental Zoology, 2007, 307A, 578-589.	1.2	23
53	Impacts of heavy metals, polyaromatic hydrocarbons, and pesticides on freeze tolerance of the earthworm Dendrobaena octaedra. Environmental Toxicology and Chemistry, 2009, 28, 2341-2347.	4.3	23
54	Predation of the mite Hypoaspis aculeifer on the springtail Folsomia fimetaria and the influence of sex, size, starvation, and poisoning. Entomologia Experimentalis Et Applicata, 2006, 118, 61-70.	1.4	22

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55	Protaphorura tricampata, a euedaphic and highly permeable springtail that can sustain activity by osmoregulation during extreme drought. Journal of Insect Physiology, 2013, 59, 1104-1110.	2.0	22
56	High blood oxygen affinity in the air-breathing swamp eel Monopterus albus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 178, 102-108.	1.8	21
57	The effect of environmental hypercapnia and size on nitrite toxicity in the striped catfish (Pangasianodon hypophthalmus). Aquatic Toxicology, 2016, 176, 151-160.	4.0	21
58	Synergistic interaction between 4-nonylphenol and high but not low temperatures in Dendrobaena octaedra. Ecotoxicology and Environmental Safety, 2009, 72, 10-16.	6.0	20
59	Increased temperature tolerance of the airâ€breathing Asian swamp eel Monopterus albus after highâ€temperature acclimation is not explained by improved cardiorespiratory performance. Journal of Fish Biology, 2016, 88, 418-432.	1.6	20
60	Extreme nitrite tolerance in the clown knifefish Chitala ornata is linked to up-regulation of methaemoglobin reductase activity. Aquatic Toxicology, 2017, 187, 9-17.	4.0	20
61	Dose-response curve modeling of excess mortality caused by two forms of stress. Environmental and Ecological Statistics, 2002, 9, 195-200.	3.5	19
62	Recovery of reproduction after drought in the soil living Folsomia candida (Collembola). Soil Biology and Biochemistry, 2011, 43, 690-692.	8.8	19
63	Effects of hypoxia on the partitioning of oxygen uptake and the rise in metabolism during digestion in the air-breathing fish Channa striata. Aquaculture, 2012, 364-365, 137-142.	3.5	19
64	Lactate provides a strong pH-independent ventilatory signal in the facultative air-breathing teleost Pangasianodon hypophthalmus. Scientific Reports, 2017, 7, 6378.	3.3	19
65	Clown knifefish (Chitala ornata) oxygen uptake and its partitioning in present and future temperature environments. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 216, 52-59.	1.8	19
66	p,pâ€²-DDE fails to reduce the competitive reproductive fitness in Nigerian male guppies. Ecotoxicology and Environmental Safety, 2006, 63, 148-157.	6.0	18
67	Low genetic variation for Dendrobaena octaedra from Greenland compared to populations from Europe and North America: Refuge or selection?. Pedobiologia, 2006, 50, 225-234.	1.2	18
68	Effects of salinity on osmoregulation, growth and survival in Asian swamp eel (Monopterus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	1.8	18
69	Accumulation of free amino acids during exposure to drought in three springtail species. Journal of Insect Physiology, 2015, 82, 114-121.	2.0	18
70	Genetic and morphological diversity in populations of Nucella lapillus (L.; neogastropoda) in response to tributyltin contamination. Ecotoxicology and Environmental Safety, 2006, 64, 146-154.	6.0	16
71	Low impact of metal pollution on genetic variation in the earthworm Dendrobaena octaedra measured by allozymes. Pedobiologia, 2008, 52, 51-60.	1.2	16
72	Haematological and ion regulatory effects of nitrite in the air-breathing snakehead fish Channa striata. Aquatic Toxicology, 2012, 118-119, 48-53.	4.0	16

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73	Cardiovascular anatomy and cardiac function in the air-breathing swamp eel (Monopterus albus). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 164, 171-180.	1.8	16
74	High affinity and temperature sensitivity of blood oxygen binding in Pangasianodon hypophthalmus due to lack of chloride-hemoglobin allosteric interaction. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R907-R915.	1.8	16
75	Recovery of blood gases and haematological parameters upon anaesthesia with benzocaine, MS-222 or Aqui-S in the air-breathing catfish Pangasianodon hypophthalmus. Ichthyological Research, 2017, 64, 84-92.	0.8	16
76	Autonomic control of the heart in the Asian swamp eel (Monopterus albus). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2011, 158, 485-489.	1.8	14
77	THE EFFECTS OF SUBLETHAL DIMETHOATE EXPOSURE ON THE LOCOMOTOR BEHAVIOR OF THE COLLEMBOLAN FOLSOMIA CANDIDA (ISOTOMIDAE). Environmental Toxicology and Chemistry, 1995, 14, 1587.	4.3	14
78	Ecological and molecular consequences of prolonged drought and subsequent rehydration in Folsomia candida (Collembola). Journal of Insect Physiology, 2012, 58, 130-137.	2.0	13
79	Air-breathing changes the pattern for temperature-induced pH regulation in a bimodal breathing teleost. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2018, 188, 451-459.	1.5	12
80	The effects of elevated environmental CO 2 on nitrite uptake in the air-breathing clown knifefish, Chitala ornata. Aquatic Toxicology, 2018, 196, 124-131.	4.0	12
81	Small Dendrobaena earthworms survive freezing better than large worms. Cryobiology, 2007, 54, 298-300.	0.7	11
82	Airâ€breathing fishes. Journal of Fish Biology, 2014, 84, 547-553.	1.6	11
83	Anoxia and Acidosis Tolerance of the Heart in an Air-Breathing Fish (Pangasianodon hypophthalmus). Physiological and Biochemical Zoology, 2015, 88, 648-659.	1.5	11
84	Effect of water pH and calcium on ion balance in five fish species of the Mekong Delta. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 232, 34-39.	1.8	11
85	Effects of lactate ions on the cardiorespiratory system in rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 316, R607-R620.	1.8	11
86	Effects of salinity on standard metabolic rate and critical oxygen tension in the giant freshwater prawn (Macrobrachium rosenbergii). Aquaculture Research, 2013, 44, 1259-1265.	1.8	10
87	Ontogeny and morphometrics of the gill and swim bladder of air-breathing striped catfish Pangasianodon hypophthalmus. Journal of Experimental Biology, 2017, 221, .	1.7	10
88	Earthworms accumulate alanine in response to drought. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 199, 8-13.	1.8	9
89	Water pH limits extracellular but not intracellular pH compensation in the CO2 tolerant freshwater fish,Pangasianodon hypophthalmus. Journal of Experimental Biology, 2018, 221, .	1.7	9
90	Acid-base regulation in the air-breathing swamp eel (Monopterus albus) at different temperatures. Journal of Experimental Biology, 2018, 221, .	1.7	8

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91	Ventilatory responses of the clown knifefish, Chitala ornata, to hypercarbia and hypercapnia. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2018, 188, 581-589.	1.5	8
92	Cardiovascular and ventilatory interactions in the facultative air-breathing teleost Pangasianodon hypophthalmus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2019, 189, 425-440.	1.5	8
93	Renal acid excretion contributes to acid-base regulation during hypercapnia in air-exposed swamp eel (Monopterus albus). Journal of Experimental Biology, 2019, 222, .	1.7	8
94	Understanding the gastrointestinal physiology and responses to feeding in airâ€breathing Anabantiform fishes. Journal of Fish Biology, 2020, 96, 986-1003.	1.6	8
95	Impact and tissue metabolism of nitrite at two acclimation temperatures in striped catfish (Pangasianodon hypophthalmus). Aquatic Toxicology, 2019, 212, 154-161.	4.0	7
96	The effects of endogenous and exogenous catecholamines on hypoxic cardiac performance in redâ€bellied piranhas. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2019, 331, 27-37.	1.9	6
97	Effects of temperature on acid-base regulation, gill ventilation and air-breathing in the clown knifefish, Chitala ornata. Journal of Experimental Biology, 2020, 223, .	1.7	6
98	Ventilatory responses of the clown knifefish, Chitala ornata, to arterial hypercapnia remain after gill denervation. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2019, 189, 673-683.	1.5	5
99	Arapaima gigas maintains gas exchange separation in severe aquatic hypoxia but does not suffer branchial oxygen loss. Journal of Experimental Biology, 2022, 225, .	1.7	5
100	Aquaculture of air-breathing fishes. Fish Physiology, 2020, 38, 315-353.	0.8	3
101	Animal Locomotor Behaviour as a Health Biomarker of Chemical Stress. Archives of Toxicology Supplement, 1998, , 164-178.	0.7	2
102	Effects of sublethal concentrations of diazinon on surfacing and hanging behaviors of snakeheadChanna striata. Fisheries Science, 2008, 74, 1330-1332.	1.6	1
103	Striped catfish (Pangasianodon hypophthalmus) use airâ€breathing and aquatic surface respiration when exposed to severe aquatic hypercarbia. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2021, 335, 820-830.	1.9	1
104	Growth rate of mudskipper (Pseudapocryptes lanceolatus, Bloch 1801) exposed to different salinities. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S144.	1.8	0
105	Contributions from population genetics to ecotoxicology and stress ecology in light of transformation to the population genomic era. Archives of Biological Sciences, 2012, 64, 557-565.	0.5	0
106	áº¢nh hÆ°á»Ÿng cá»§a ná»“ng Ä‘á»™ CO2 cao trong nÆ°á»›c lÃªn cÃ¢n báº±ng acid vÃ base cá»§a lÆ°Æ¡n Ä‘á»“ng Monopterus albus (Chi Khoa Hoc = Journal of Science, 2018, 54(3), 138.	0.1	0