David H Evans

List of Publications by Year
in descending order

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86	5,411	117625	95266
papers	citations	34 h-index	68 g-index

87	87	87	3138
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Multifunctional Fish Gill: Dominant Site of Gas Exchange, Osmoregulation, Acid-Base Regulation, and Excretion of Nitrogenous Waste. Physiological Reviews, 2005, 85, 97-177.	28.8	2,180
2	Teleost fish osmoregulation: what have we learned since August Krogh, Homer Smith, and Ancel Keys. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R704-R713.	1.8	256
3	Fundulus as the premier teleost model in environmental biology: Opportunities for new insights using genomics. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2007, 2, 257-286.	1.0	194
4	Ionic transport in the fish gill epithelium. The Journal of Experimental Zoology, 1999, 283, 641-652.	1.4	193
5	Ionic transport in the fish gill epithelium. The Journal of Experimental Zoology, 1999, 283, 641-652.	1.4	132
6	Cell signaling and ion transport across the fish gill epithelium. The Journal of Experimental Zoology, 2002, 293, 336-347.	1.4	130
7	Aspects of the Physiology of Terrestrial Life in Amphibious Fishes. Journal of Experimental Biology, 1969, 50, 141-149.	1.7	118
8	Studies on the Permeability To Water Of Selected Marine, Freshwater And Euryhaline Teleosts. Journal of Experimental Biology, 1969, 50, 689-703.	1.7	117
9	Gill ammonia transport. The Journal of Experimental Zoology, 1986, 239, 17-23.	1.4	111
10	Ionic exchange mechanisms in fish gills. Comparative Biochemistry and Physiology A, Comparative Physiology, 1975, 51, 491-495.	0.6	100
11	Pendrin immunoreactivity in the gill epithelium of a euryhaline elasmobranch. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R983-R992.	1.8	94
12	An Emerging Role for a Cardiac Peptide Hormone in Fish Osmoregulation. Annual Review of Physiology, 1990, 52, 43-60.	13.1	86
13	NHE3 in an ancestral vertebrate: primary sequence, distribution, localization, and function in gills. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R1520-R1534.	1.8	69
14	Mechanisms of Acid Extrusion by Two Marine Fishes: The Teleost,Opsanus Beta, and the Elasmobranch,Squalus Acanthias. Journal of Experimental Biology, 1982, 97, 289-299.	1.7	66
15	Neuronal nitric oxide synthase in the gill of the killifish, Fundulus heteroclitus. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2006, 144, 510-519.	1.6	60
16	FISH GILL IONIC TRANSPORT: METHODS AND MODELS. Biological Bulletin, 1982, 163, 108-130.	1.8	56
17	Further Evidence for Na/NH4 Exchange in Marine Teleost Fish. Journal of Experimental Biology, 1977, 70, 213-220.	1.7	56
18	Acid-base balance and ion transfers in the spiny dogfish (Squalus acanthias) during hypercapnia: A role for ammonia excretion. The Journal of Experimental Zoology, 1992, 261, 9-17.	1.4	55

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19	Ammonia and Acid-Base Balance During High Ammonia Exposure in a Marine Teleost (Myoxocephalus) Tj ETQq1 1 0.784314 rgBT /Overl	1.7	35
20	8 The Roles of Gill Permeability and Transport Mechanisms in Euryhalinity. Fish Physiology, 1984, , 239-283.	0.8	47
21	The effect of cadmium and other metals on vascular smooth muscle of the dogfish shark, Squalus acanthias. Toxicology, 1990, 61, 275-281.	4.2	45
22	Modes of Ammonia Transport Across the Gill Epithelium of the Marine Teleost Fish Opsanus Beta. Journal of Experimental Biology, 1989, 144, 339-356.	1.7	43
23	Osmoregulation by the Prenatal Spiny Dogfish, Squalus Acanthias. Journal of Experimental Biology, 1982, 101, 295-305.	1.7	41
24	Measurement of drinking rates in fish. Comparative Biochemistry and Physiology, 1968, 25, 751-753.	1.1	40
25	Immunohistochemical localisation of natriuretic peptides in the brains and hearts of the spiny dogfishSqualus acanthias and the Atlantic hagfishMyxine glutinosa. Cell and Tissue Research, 1992, 270, 535-545.	2.9	40
26	A brief history of fish osmoregulation: the central role of the Mt. Desert Island Biological Laboratory. Frontiers in Physiology, 2010, 1, 13.	2.8	40
27	Sodium, Chloride and Water Balance of the Intertidal Teleost, Pholis Gunnellus. Journal of Experimental Biology, 1969, 50, 179-190.	1.7	40
28	C-type natriuretic peptides are potent dilators of shark vascular smooth muscle. The Journal of Experimental Zoology, 1993, 265, 84-87.	1.4	38
29	COX2 in a euryhaline teleost, Fundulus heteroclitus: primary sequence, distribution, localization, and potential function in gills during salinity acclimation. Journal of Experimental Biology, 2006, 209, 1696-1708.	1.7	38
30	Mechanisms of ammonia and acid extrusion by the little skate,Raja erinacea. The Journal of Experimental Zoology, 1979, 208, 431-437.	1.4	36
31	Osmotic and Ionic Regulation by Freshwater and Marine Fishes. , 1980, , 93-122.		36
32	Vasoactivity of the ventral aorta of the American eel (Anguilla rostrata), Atlantic hagfish (Myxine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 273-284.	1.4	36
33	Sodium Extrusion by A Fish Acclimated to Sea Water: Physiological and Biochemical Description OF A Na-For-K Exchange System. Journal of Experimental Biology, 1973, 58, 627-636.	1.7	36
34	The presence of Naâ€“Na and Naâ€“K exchange in sodium extrusion by three species of fish. Nature, 1976, 259, 241-242.	27.8	35
35	The Effect of External Potassium Ions On the Electrical Potential Measured Across the Gills of the Teleost, Dormitator Maculatus. Journal of Experimental Biology, 1974, 61, 277-283.	1.7	35
36	Modes of Ammonia Transport Across the Gill Epithelium of the Dogfish Pup (Squalus Acanthias). Journal of Experimental Biology, 1988, 138, 375-397.	1.7	34

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37	NaCl transport across the opercular epithelium ofFundulus heteroclitusis inhibited by an endothelin to NO, superoxide, and prostanoid signaling axis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R560-R568.	1.8	33
38	A putative H+-K+-ATPase in the Atlantic stingray, Dasyatis sabina: primary sequence and expression in gills. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 287, R981-R991.	1.8	32
39	Immunohistochemical localisation of natriuretic peptides in the heart and brain of the gulf toadfish Opsanus beta. Cell and Tissue Research, 1992, 269, 151-158.	2.9	31
40	Immunolocalization of Na+/K+-ATPase, carbonic anhydrase II, and vacuolar H+-ATPase in the gills of freshwater adult lampreys,Geotria australis. The Journal of Experimental Zoology, 2004, 301A, 654-665.	1.4	30
41	The putative mechanism of Na+ absorption in euryhaline elasmobranchs exists in the gills of a stenohaline marine elasmobranch, Squalus acanthias. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, 155-162.	1.8	30
42	HCO3-stimulated CL efflux in the Gulf toadfish acclimated to sea water. The Journal of Experimental Zoology, 1979, 208, 13-16.	1.4	28
43	Compensation for hypercapnia by a euryhaline elasmobranch: Effect of salinity and roles of gills and kidneys in fresh water. The Journal of Experimental Zoology, 2003, 297A, 52-63.	1.4	27
44	Evidence for the presence of A1 and A2 adenosine receptors in the ventral aorta of the dogfish shark, Squalus acanthias. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1992, 162, 179-183.	1.5	26
45	Endothelin and endothelin converting enzyme-1 in the fish gill:evolutionary and physiological perspectives. Journal of Experimental Biology, 2007, 210, 4286-4297.	1.7	26
46	A prostaglandin, not NO, mediates endothelium-dependent dilation in ventral aorta of shark (Squalus) Tj ETQq0 0 0 rgBT /Overlock 10 T 274, R1050-R1057.	1.8	25
47	Gene Duplications and Losses within the Cyclooxygenase Family of Teleosts and Other Chordates. Molecular Biology and Evolution, 2008, 25, 2349-2359.	8.9	25
48	Sodium uptake by the sailfin molly, Poecilia latipinna: Kinetic analysis of a carrier system present in both fresh-water-acclimated and sea-water-acclimated individuals. Comparative Biochemistry and Physiology A, Comparative Physiology, 1973, 45, 843-850.	0.6	24
49	Time course of sea water acclimation by the euryhaline teleost,Dormitator maculatus: Correlation between potassium stimulation of sodium efflux and Na/K activated ATPase activity. Journal of Comparative Physiology â–¡ B, 1975, 96, 117-122.	2.0	23
50	The effects of various external cations and sodium transport inhibitors on sodium uptake by the sailfin molly,Poecilia latipinna, acclimated to sea water. Journal of Comparative Physiology â–¡ B, 1975, 96, 111-115.	2.0	22
51	Molecular detection and immunological localization of gill Na+/H+ exchanger in the dogfish (Squalus acanthias). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1092-R1102.	1.8	22
52	Renal responses to salinity change in snakes with and without salt glands. Journal of Experimental Biology, 2011, 214, 2140-2156.	1.7	21
53	Short Communications: The Egg Case of the Oviparous Elasmobranch, Raja Erinacea, Does Osmoregulate. Journal of Experimental Biology, 1981, 92, 337-340.	1.7	20
54	Characterization of the effects of vasoactive substances on the bulbus arteriosus of the eel,Anguilla rostrata. The Journal of Experimental Zoology, 2003, 297A, 45-51.	1.4	19

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55	Urotensin II and its receptor in the killifish gill: regulators of NaCl extrusion. Journal of Experimental Biology, 2011, 214, 3985-3991.	1.7	19
56	Distribution and Characterization of Natriuretic Peptide Receptors in the Gills of the Spiny Dogfish,Squalus acanthias. General and Comparative Endocrinology, 1997, 106, 338-347.	1.8	17
57	The sodium balance of the euryhaline marine loggerhead turtle,Caretta caretta. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1973, 83, 179-185.	1.6	14
58	Chloride extrusion in the isolated perfused teleost gill. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1981, 141, 471-476.	1.5	14
59	Phylogeny, taxonomy, and evolution of the endothelin receptor gene family. Molecular Phylogenetics and Evolution, 2009, 52, 677-687.	2.7	13
60	Osmoregulation, Acidâ€"Base Regulation, and Nitrogen Excretion. , 1999, , 79-96.		12
61	Effects of environmental salinity on gill endothelin receptor expression in the killifish, Fundulus heteroclitus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 152, 58-65.	1.8	12
62	Shortâ€term lowâ€salinity tolerance by the longhorn sculpin, Myoxocephalus octodecimspinosus. Journal of Experimental Zoology, 2009, 311A, 45-56.	1.2	11
63	Morphological and biochemical evidence for the evolution of salt glands in snakes. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2011, 160, 400-411.	1.8	10
64	Sodium balance in the American alligator. The Journal of Experimental Zoology, 1984, 231, 325-329.	1.4	7
65	Functional characterization of a muscarinic receptor in the smooth muscle of the shark (Squalus) Tj ETQq1 1 0.784314 rgBT /Overloc	1.0	7
66	Natriuretic peptide binding sites in the brain of the Atlantic hagfish,Myxine glutinosa. The Journal of Experimental Zoology, 1999, 284, 407-413.	1.4	6
67	Transepithelial potential measurements in the isolated, perfused head of a marine teleost. The Journal of Experimental Zoology, 1984, 230, 321-324.	1.4	5
68	The effect of Ca2+, Cd2+ and Ni2+ on detergent-permeabilized vascular smooth muscle from the shark, Squalus acanthias. Toxicology, 1993, 83, 1-8.	4.2	4
69	Morphology and putative function of the colon and cloaca of marine and freshwater snakes. Journal of Morphology, 2012, 273, 88-102.	1.2	3
70	The relation of Na and Cl extrusion inOpsanus beta, the gulf toadfish, acclimated to seawater. The Journal of Experimental Zoology, 1982, 224, 187-194.	1.4	2
71	Functional characterization of a muscarinic receptor in the smooth muscle of the shark (Squalus) Tj ETQq1 1 0.784314 rgBT /Overloc	2	
72	H-FLUX: An interactive program for the analysis of acid-base efflux. Computer Programs in Biomedicine, 1982, 14, 165-170.	0.7	0

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73	Research in the Early Twenty-First Century: The Year-Round Research Program Comes of Age. , 2015, , 995-1064.		0
74	The three endothelin receptors in the killifish, Fundulus heteroclitus : Physiological and phylogenetic relationships. FASEB Journal, 2006, 20, A826.	0.5	0
75	Why are there no freshwater, longhorn sculpin (Myoxocephalus octodecimspinosus)? Effects of low environmental salinity on gill ion transporter expression. FASEB Journal, 2008, 22, 757.10.	0.5	0
76	Comparative immunolocalization of Na + /K + â€ATPase and Na + /K + /2Cl â^' cotransporter in the kidneys of freshwater and marine snakes. FASEB Journal, 2008, 22, 757.9.	0.5	0
77	Identification of an NHE8 ortholog in the gills of the anadromous sea lamprey Petromyzon marinus. FASEB Journal, 2008, 22, 1239.7.	0.5	0
78	Plasticity of gastrointestinal tract structure and function in the invasive fish Pterygoplichthys disjunctivus (Teleostei: Loricariidae). FASEB Journal, 2010, 24, 1055.12.	0.5	0
79	Urotensin II in the killifish gill: regulation of gill chloride transport. FASEB Journal, 2010, 24, 813.10.	0.5	0
80	MDIBL in the Postwar: The Third Generation. , 2015, , 185-244.		0
81	Research in the 1980s: The Fifth Generation. , 2015, , 507-595.		0
82	Research in the 1970s: The Fourth Generation. , 2015, , 381-457.		0
83	Mid Century: The Third-Generation Redux. , 2015, , 245-318.		0
84	The Centennial Decade of the MDIBL. , 2015, , 597-731.		0
85	Research in the 1990s: Molecular Biology Comes to the MDIBL. , 2015, , 733-792.		0
86	The Second Generation: MDIBL in the 1930s. , 2015, , 87-140.		0