

David H Evans

List of Publications by Year in descending order

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86
papers

5,411
citations

117571

34
h-index

98753

67
g-index

87
all docs

87
docs citations

87
times ranked

3138
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Multifunctional Fish Gill: Dominant Site of Gas Exchange, Osmoregulation, Acid-Base Regulation, and Excretion of Nitrogenous Waste. <i>Physiological Reviews</i> , 2005, 85, 97-177. | 13.1 | 2,180 |
| 2 | Teleost fish osmoregulation: what have we learned since August Krogh, Homer Smith, and Ancel Keys. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R704-R713. | 0.9 | 256 |
| 3 | Fundulus as the premier teleost model in environmental biology: Opportunities for new insights using genomics. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2007, 2, 257-286. | 0.4 | 194 |
| 4 | Ionic transport in the fish gill epithelium. , 1999, 283, 641-652. | | 193 |
| 5 | Ionic transport in the fish gill epithelium. <i>The Journal of Experimental Zoology</i> , 1999, 283, 641-652. | 1.4 | 132 |
| 6 | Cell signaling and ion transport across the fish gill epithelium. <i>The Journal of Experimental Zoology</i> , 2002, 293, 336-347. | 1.4 | 130 |
| 7 | Aspects of the Physiology of Terrestrial Life in Amphibious Fishes. <i>Journal of Experimental Biology</i> , 1969, 50, 141-149. | 0.8 | 118 |
| 8 | Studies on the Permeability To Water Of Selected Marine, Freshwater And Euryhaline Teleosts. <i>Journal of Experimental Biology</i> , 1969, 50, 689-703. | 0.8 | 117 |
| 9 | Gill ammonia transport. <i>The Journal of Experimental Zoology</i> , 1986, 239, 17-23. | 1.4 | 111 |
| 10 | Ionic exchange mechanisms in fish gills. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1975, 51, 491-495. | 0.7 | 100 |
| 11 | Pendrin immunoreactivity in the gill epithelium of a euryhaline elasmobranch. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R983-R992. | 0.9 | 94 |
| 12 | An Emerging Role for a Cardiac Peptide Hormone in Fish Osmoregulation. <i>Annual Review of Physiology</i> , 1990, 52, 43-60. | 5.6 | 86 |
| 13 | NHE3 in an ancestral vertebrate: primary sequence, distribution, localization, and function in gills. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R1520-R1534. | 0.9 | 69 |
| 14 | Mechanisms of Acid Extrusion by Two Marine Fishes: The Teleost, <i>Opsanus Beta</i> , and the Elasmobranch, <i>Squalus Acanthias</i> . <i>Journal of Experimental Biology</i> , 1982, 97, 289-299. | 0.8 | 66 |
| 15 | Neuronal nitric oxide synthase in the gill of the killifish, <i>Fundulus heteroclitus</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2006, 144, 510-519. | 0.7 | 60 |
| 16 | FISH GILL IONIC TRANSPORT: METHODS AND MODELS. <i>Biological Bulletin</i> , 1982, 163, 108-130. | 0.7 | 56 |
| 17 | Further Evidence for Na/NH ₄ Exchange in Marine Teleost Fish. <i>Journal of Experimental Biology</i> , 1977, 70, 213-220. | 0.8 | 56 |
| 18 | Acid-base balance and ion transfers in the spiny dogfish (<i>Squalus acanthias</i>) during hypercapnia: A role for ammonia excretion. <i>The Journal of Experimental Zoology</i> , 1992, 261, 9-17. | 1.4 | 55 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Ammonia and Acid-Base Balance During High Ammonia Exposure in a Marine Teleost (Myoxocephalus Tj ETQq1 1 0,784314 rgBT /Over | 0.8 | 35 |
| 20 | 8 The Roles of Gill Permeability and Transport Mechanisms in Euryhalinity. Fish Physiology, 1984, , 239-283. | 0.2 | 47 |
| 21 | The effect of cadmium and other metals on vascular smooth muscle of the dogfish shark, Squalus acanthias. Toxicology, 1990, 61, 275-281. | 2.0 | 45 |
| 22 | Modes of Ammonia Transport Across the Gill Epithelium of the Marine Teleost Fish <i>Opsanus Beta</i>. Journal of Experimental Biology, 1989, 144, 339-356. | 0.8 | 43 |
| 23 | Osmoregulation by the Prenatal Spiny Dogfish, <i>Squalus Acanthias</i>. Journal of Experimental Biology, 1982, 101, 295-305. | 0.8 | 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 dogfish Squalus acanthias and the Atlantic hagfish Myxine glutinosa. Cell and Tissue Research, 1992, 270, 535-545. | 1.5 | 40 |
| 26 | A brief history of fish osmoregulation: the central role of the Mt. Desert Island Biological Laboratory. Frontiers in Physiology, 2010, 1, 13. | 1.3 | 40 |
| 27 | Sodium, Chloride and Water Balance of the Intertidal Teleost, <i>Pholis Gunnellus</i>. Journal of Experimental Biology, 1969, 50, 179-190. | 0.8 | 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. | 0.8 | 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. | 0.8 | 36 |
| 34 | The presence of Naâ€“Na and Naâ€“K exchange in sodium extrusion by three species of fish. Nature, 1976, 259, 241-242. | 13.7 | 35 |
| 35 | The Effect of External Potassium Ions On the Electrical Potential Measured Across the Gills of the Teleost, <i>Dormitorator Maculatus</i>. Journal of Experimental Biology, 1974, 61, 277-283. | 0.8 | 35 |
| 36 | Modes of Ammonia Transport Across the Gill Epithelium of the Dogfish Pup (Squalus Acanthias). Journal of Experimental Biology, 1988, 138, 375-397. | 0.8 | 34 |

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|----|---|-----|-----------|
| 37 | NaCl transport across the opercular epithelium of <i>Fundulus heteroclitus</i> inhibited by an endothelin to NO, superoxide, and prostanoid signaling axis. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 286, R560-R568. | 0.9 | 33 |
| 38 | A putative H ⁺ -K ⁺ -ATPase in the Atlantic stingray, <i>Dasyatis sabina</i> : primary sequence and expression in gills. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R981-R991. | 0.9 | 32 |
| 39 | Immunohistochemical localisation of natriuretic peptides in the heart and brain of the gulf toadfish <i>Opsanus beta</i> . <i>Cell and Tissue Research</i> , 1992, 269, 151-158. | 1.5 | 31 |
| 40 | Immunolocalization of Na ⁺ /K ⁺ -ATPase, carbonic anhydrase II, and vacuolar H ⁺ -ATPase in the gills of freshwater adult lampreys, <i>Geotria australis</i> . <i>The Journal of Experimental Zoology</i> , 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, <i>Squalus acanthias</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 146, 155-162. | 0.8 | 30 |
| 42 | HCO ₃ ⁻ -stimulated Cl ⁻ efflux in the Gulf toadfish acclimated to sea water. <i>The Journal of Experimental Zoology</i> , 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. <i>The Journal of Experimental Zoology</i> , 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, <i>Squalus acanthias</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1992, 162, 179-183. | 0.7 | 26 |
| 45 | Endothelin and endothelin converting enzyme-1 in the fish gill: evolutionary and physiological perspectives. <i>Journal of Experimental Biology</i> , 2007, 210, 4286-4297. | 0.8 | 26 |
| 46 | A prostaglandin, not NO, mediates endothelium-dependent dilation in ventral aorta of shark (<i>Squalus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T 274, R1050-R1057. | 0.9 | 25 |
| 47 | Gene Duplications and Losses within the Cyclooxygenase Family of Teleosts and Other Chordates. <i>Molecular Biology and Evolution</i> , 2008, 25, 2349-2359. | 3.5 | 25 |
| 48 | Sodium uptake by the sailfin molly, <i>Poecilia latipinna</i> : Kinetic analysis of a carrier system present in both fresh-water-acclimated and sea-water-acclimated individuals. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1973, 45, 843-850. | 0.7 | 24 |
| 49 | Time course of sea water acclimation by the euryhaline teleost, <i>Dormitator maculatus</i> : Correlation between potassium stimulation of sodium efflux and Na/K activated ATPase activity. <i>Journal of Comparative Physiology - B</i> , 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, <i>Poecilia latipinna</i> , acclimated to sea water. <i>Journal of Comparative Physiology - B</i> , 1975, 96, 111-115. | 2.0 | 22 |
| 51 | Molecular detection and immunological localization of gill Na ⁺ /H ⁺ exchanger in the dogfish (<i>Squalus acanthias</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1092-R1102. | 0.9 | 22 |
| 52 | Renal responses to salinity change in snakes with and without salt glands. <i>Journal of Experimental Biology</i> , 2011, 214, 2140-2156. | 0.8 | 21 |
| 53 | Short Communications: The Egg Case of the Oviparous Elasmobranch, <i>Raja Erinacea</i> , Does Osmoregulate. <i>Journal of Experimental Biology</i> , 1981, 92, 337-340. | 0.8 | 20 |
| 54 | Characterization of the effects of vasoactive substances on the bulbus arteriosus of the eel, <i>Anguilla rostrata</i> . <i>The Journal of Experimental Zoology</i> , 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. <i>Journal of Experimental Biology</i> , 2011, 214, 3985-3991. | 0.8 | 19 |
| 56 | Distribution and Characterization of Natriuretic Peptide Receptors in the Gills of the Spiny Dogfish, <i>Squalus acanthias</i> . <i>General and Comparative Endocrinology</i> , 1997, 106, 338-347. | 0.8 | 17 |
| 57 | The sodium balance of the euryhaline marine loggerhead turtle, <i>Caretta caretta</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1973, 83, 179-185. | 0.7 | 14 |
| 58 | Chloride extrusion in the isolated perfused teleost gill. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1981, 141, 471-476. | 0.7 | 14 |
| 59 | Phylogeny, taxonomy, and evolution of the endothelin receptor gene family. <i>Molecular Phylogenetics and Evolution</i> , 2009, 52, 677-687. | 1.2 | 13 |
| 60 | Osmoregulation, Acid-Base Regulation, and Nitrogen Excretion. , 1999, , 79-96. | | 12 |
| 61 | Effects of environmental salinity on gill endothelin receptor expression in the killifish, <i>Fundulus heteroclitus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 152, 58-65. | 0.8 | 12 |
| 62 | Short-term low salinity tolerance by the longhorn sculpin, <i>Myoxocephalus octodecimspinosus</i> . <i>Journal of Experimental Zoology</i> , 2009, 311A, 45-56. | 1.2 | 11 |
| 63 | Morphological and biochemical evidence for the evolution of salt glands in snakes. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011, 160, 400-411. | 0.8 | 10 |
| 64 | Sodium balance in the American alligator. <i>The Journal of Experimental Zoology</i> , 1984, 231, 325-329. | 1.4 | 7 |
| 65 | Functional characterization of a muscarinic receptor in the smooth muscle of the shark (<i>Squalus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1.0 | 1.0 | 7 |
| 66 | Natriuretic peptide binding sites in the brain of the Atlantic hagfish, <i>Myxine glutinosa</i> . <i>The Journal of Experimental Zoology</i> , 1999, 284, 407-413. | 1.4 | 6 |
| 67 | Transepithelial potential measurements in the isolated, perfused head of a marine teleost. <i>The Journal of Experimental Zoology</i> , 1984, 230, 321-324. | 1.4 | 5 |
| 68 | The effect of Ca ²⁺ , Cd ²⁺ and Ni ²⁺ on detergent-permeabilized vascular smooth muscle from the shark, <i>Squalus acanthias</i> . <i>Toxicology</i> , 1993, 83, 1-8. | 2.0 | 4 |
| 69 | Morphology and putative function of the colon and cloaca of marine and freshwater snakes. <i>Journal of Morphology</i> , 2012, 273, 88-102. | 0.6 | 3 |
| 70 | The relation of Na and Cl extrusion in <i>Opsanus beta</i> , the gulf toadfish, acclimated to seawater. <i>The Journal of Experimental Zoology</i> , 1982, 224, 187-194. | 1.4 | 2 |
| 71 | Functional characterization of a muscarinic receptor in the smooth muscle of the shark (<i>Squalus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 2 | | 2 |
| 72 | H-FLUX: An interactive program for the analysis of acid-base efflux. <i>Computer Programs in Biomedicine</i> , 1982, 14, 165-170. | 0.8 | 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, <i>Fundulus heteroclitus</i> : Physiological and phylogenetic relationships. FASEB Journal, 2006, 20, A826. | 0.2 | 0 |
| 75 | Why are there no freshwater, longhorn sculpin (<i>Myoxocephalus octodecimspinosus</i>)? Effects of low environmental salinity on gill ion transporter expression. FASEB Journal, 2008, 22, 757.10. | 0.2 | 0 |
| 76 | Comparative immunolocalization of Na ⁺ /K ⁺ ATPase and Na ⁺ /K ⁺ /2Cl ⁻ cotransporter in the kidneys of freshwater and marine snakes. FASEB Journal, 2008, 22, 757.9. | 0.2 | 0 |
| 77 | Identification of an NHE8 ortholog in the gills of the anadromous sea lamprey <i>Petromyzon marinus</i> . FASEB Journal, 2008, 22, 1239.7. | 0.2 | 0 |
| 78 | Plasticity of gastrointestinal tract structure and function in the invasive fish <i>Pterygoplichthys disjunctivus</i> (Teleostei: Loricariidae). FASEB Journal, 2010, 24, 1055.12. | 0.2 | 0 |
| 79 | Urotensin II in the killifish gill: regulation of gill chloride transport. FASEB Journal, 2010, 24, 813.10. | 0.2 | 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 |