Steffen S Madsen

List of Publications by Year
in descending order

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75 papers	3,836 citations	101496 36 h-index	133188 59 g-index
75 all docs	75 docs citations	75 times ranked	2145 citing authors

#	Article	IF	Citations
1	Differential expression of gill Na+,K+-ATPaseÎ±- and Î²-subunits, Na+,K+,2Cl-cotransporter and CFTR anion channel in juvenile anadromous and landlocked Atlantic salmonSalmo salar. Journal of Experimental Biology, 2007, 210, 2885-2896.	0.8	215
2	Osmoregulation and salinity effects on the expression and activity of Na+,K+-ATPase in the gills of European sea bass,Dicentrarchus labrax (L.). , 1998, 282, 290-300.		184
3	The role of cortisol and growth hormone in seawater adaptation and development of hypoosmoregulatory mechanisms in sea trout parr (Salmo trutta trutta). General and Comparative Endocrinology, 1990, 79, 1-11.	0.8	175
4	Dynamics of Na+,K+,2Cl? cotransporter and Na+,K+-ATPase expression in the branchial epithelium of brown trout (Salmo trutta) and atlantic salmon (Salmo salar). The Journal of Experimental Zoology, 2002, 293, 106-118.	1.4	162
5	Osmoregulatory Actions of Growth Hormone and Prolactin in an Advanced Teleost. General and Comparative Endocrinology, 1997, 106, 95-101.	0.8	138
6	Aquaporin expression dynamics in osmoregulatory tissues of Atlantic salmon during smoltification and seawater acclimation. Journal of Experimental Biology, 2010, 213, 368-379.	0.8	137
7	Cortisol regulation of ion transporter mRNA in Atlantic salmon gill and the effect of salinity on the signaling pathway. Journal of Endocrinology, 2007, 194, 417-427.	1.2	109
8	Timeâ€Course Changes in the Expression of Na+,K+â€ATPase in Gills and Pyloric Caeca of Brown Trout (Salmo trutta) during Acclimation to Seawater. Physiological and Biochemical Zoology, 2000, 73, 446-453.	0.6	107
9	Somatotropic actions of the homologous growth hormone and prolactins in the euryhaline teleost, the tilapia, Oreochromis mossambicus. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2068-2072.	3.3	99
10	Multiplicity of expression of Na+,K+â€“ATPaseÎ±-subunit isoforms in the gill of Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 1 Experimental Biology, 2009, 212, 78-88.	0.8	97
11	Endocrine systems in juvenile anadromous and landlocked Atlantic salmon (Salmo salar): Seasonal development and seawater acclimation. General and Comparative Endocrinology, 2008, 155, 762-772.	0.8	90
12	Effects of Insulin-like Growth Factor-I and Cortisol on Na+,K+-ATPase Expression in Osmoregulatory Tissues of Brown Trout (Salmo trutta). General and Comparative Endocrinology, 1999, 113, 331-342.	0.8	89
13	17-Î² Estradiol and 4-nonylphenol delay smolt development and downstream migration in Atlantic salmon, Salmo salar. Aquatic Toxicology, 2004, 68, 109-120.	1.9	83
14	A selective survey of the endocrine system of the rainbow trout (Oncorhynchus mykiss) with emphasis on the hormonal regulation of ion balance. Aquaculture, 1992, 100, 237-262.	1.7	77
15	Molecular mechanisms of continuous light inhibition of Atlantic salmon parrâ€“smolt transformation. Aquaculture, 2007, 273, 235-245.	1.7	77
16	Water Transport and Functional Dynamics of Aquaporins in Osmoregulatory Organs of Fishes. Biological Bulletin, 2015, 229, 70-92.	0.7	77
17	In-vitro effects of insulin-like growth factor-I on gill Na+,K+-ATPase in coho salmon, Oncorhynchus kisutch. Journal of Endocrinology, 1993, 138, 23-30.	1.2	73
18	Endocrine control of Na+,K+-ATPase and chloride cell development in brown trout (Salmo trutta): interaction of insulin-like growth factor-I with prolactin and growth hormone. Journal of Endocrinology, 1999, 162, 127-135.	1.2	72

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19	Physiology of seawater acclimation in the striped bass, Morone saxatilis (Walbaum). Fish Physiology and Biochemistry, 1994, 13, 1-11.	0.9	71
20	Cortisol treatment improves the development of hypoosmoregulatory mechanisms in the euryhaline rainbow trout, Salmo gairdneri. Fish Physiology and Biochemistry, 1990, 8, 45-52.	0.9	69
21	Effect of repetitive cortisol and thyroxine injections on chloride cell number and Na+/K+-ATPase activity in gills of freshwater acclimated rainbow trout, Salmo gairdneri. Comparative Biochemistry and Physiology A, Comparative Physiology, 1990, 95, 171-175.	0.7	69
22	Effect of salinity on expression of branchial ion transporters in striped bass (Morone saxatilis). The Journal of Experimental Zoology, 2004, 301A, 979-991.	1.4	67
23	Nitric oxide synthase in the gill of Atlantic salmon: colocalization with and inhibition of Na+,K+-ATPase. Journal of Experimental Biology, 2005, 208, 1011-1017.	0.8	63
24	Hormone receptors in gills of smolting Atlantic salmon, Salmo salar: Expression of growth hormone, prolactin, mineralocorticoid and glucocorticoid receptors and 11Î²-hydroxysteroid dehydrogenase type 2. General and Comparative Endocrinology, 2007, 152, 295-303.	0.8	63
25	Claudin-15 and -25b expression in the intestinal tract of Atlantic salmon in response to seawater acclimation, smoltification and hormone treatment. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 155, 361-370.	0.8	62
26	Enhanced hypoosmoregulatory response to growth hormone after cortisol treatment in immature rainbow trout, Salmo gairdneri. Fish Physiology and Biochemistry, 1990, 8, 271-279.	0.9	60
27	The Physiological Basis of the Migration Continuum in Brown Trout (Salmo trutta). Physiological and Biochemical Zoology, 2014, 87, 334-345.	0.6	59
28	Osmoregulation and expression of ion transport proteins and putative claudins in the gill of Southern Flounder (Paralichthys lethostigma). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 265-273.	0.8	57
29	Distinct hormonal regulation of Na+,K+-atpase genes in the gill of Atlantic salmon (Salmo salar L.). Journal of Endocrinology, 2009, 203, 301-310.	1.2	52
30	Insulin-like Growth Factor I Gene Expression during Parr-Smolt Transformation of Coho Salmon. Zoological Science, 1995, 12, 249-252.	0.3	50
31	Effects of Environmental Salinity on Pituitary Growth Hormone Content and Cell Activity in the Euryhaline Tilapia, Oreochromis mossambicus. General and Comparative Endocrinology, 1994, 95, 483-494.	0.8	49
32	Bezafibrate, a lipid-lowering pharmaceutical, as a potential endocrine disruptor in male zebrafish (Danio rerio). Aquatic Toxicology, 2011, 105, 107-118.	1.9	48
33	Genetic differences in physiology, growth hormone levels and migratory behaviour of Atlantic salmon smolts. Journal of Fish Biology, 2001, 59, 28-44.	0.7	46
34	Aquaporin expression in the Japanese medaka (Oryzias latipes, Temminck & Schlegel) in FW and SW: challenging the paradigm for intestinal water transport?. Journal of Experimental Biology, 2014, 217, 3108-21.	0.8	46
35	Relationship between gill Na+,K+-ATPase activity and downstream movement in domesticated and first-generation offspring of wild anadromous brown trout (Salmo trutta). Canadian Journal of Fisheries and Aquatic Sciences, 2000, 57, 2086-2095.	0.7	43
36	Regulation of Na+/K+-ATPase activity by nitric oxide in the kidney and gill of the brown trout (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	41

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37	Differential effects of cortisol and 11-deoxycorticosterone on ion transport protein mRNA levels in gills of two euryhaline teleosts, Mozambique tilapia (Oreochromis mossambicus) and striped bass (Morone saxatilis). Journal of Endocrinology, 2011, 209, 115-126.	1.2	40
38	Expression of Gill Vacuolar-Type H+-ATPase B Subunit, and Na+, K+-ATPase Î±1and Î²1Subunit Messenger RNAs in Smolting Salmo salar. Zoological Science, 2001, 18, 315-324.	0.3	36
39	Prolactin Antagonizes the Seawater-Adaptive Effect of Cortisol and Growth Hormone in Anadromous Brown Trout (Salmo trutta). Zoological Science, 1997, 14, 249-256.	0.3	35
40	Physiological response in the European flounder (Platichthys flesus) to variable salinity and oxygen conditions. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2008, 178, 909-915.	0.7	33
41	Functional characterization of water transport and cellular localization of three aquaporin paralogs in the salmonid intestine. Frontiers in Physiology, 2011, 2, 56.	1.3	33
42	Differential expression and novel permeability properties of three aquaporin 8 paralogs from seawater-challenged Atlantic salmon smolts. Journal of Experimental Biology, 2013, 216, 3873-85.	0.8	33
43	Functional dynamics of claudin expression in Japanese medaka (Oryzias latipes): Response to environmental salinity. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 187, 74-85.	0.8	33
44	The Role of Aquaporins in the Kidney of Euryhaline Teleosts. Frontiers in Physiology, 2011, 2, 51.	1.3	31
45	Future migratory behaviour predicted from premigratory levels of gill Na+/K+-ATPase activity in individual wild brown trout(Salmo trutta). Journal of Experimental Biology, 2004, 207, 527-533.	0.8	30
46	IGF-I and branchial IGF receptor expression and localization during salinity acclimation in striped bass. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R535-R543.	0.9	30
47	FXYD-11 associates with Na⁺-K⁺-ATPase in the gill of Atlantic salmon: regulation and localization in relation to changed ion-regulatory status. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R1212-R1223.	0.9	29
48	Opposite effects of 17Î²-estradiol and combined growth hormoneâ€"Cortisol treatment on hypo-osmoregulatory performance in sea trout presmolts, Salmo trutta. General and Comparative Endocrinology, 1991, 83, 276-282.	0.8	27
49	Differential regulation of cystic fibrosis transmembrane conductance regulator and Na+,K+-ATPase in gills of striped bass, Morone saxatilis: effect of salinity and hormones. Journal of Endocrinology, 2007, 192, 249-260.	1.2	25
50	Corticosteroid regulation of Na+,K+-ATPase Î±1-isoform expression in Atlantic salmon gill during smolt development. General and Comparative Endocrinology, 2011, 170, 283-289.	0.8	25
51	Vacuolar-Type H+-ATPase and Na+, K+-ATPase Expression in Gills of Atlantic Salmon (Salmo salar) during Isolated and Combined Exposure to Hyperoxia and Hypercapnia in Fresh Water. Zoological Science, 2001, 18, 1199-1205.	0.3	24
52	Overwintering of sea trout (Salmo trutta) in freshwater: escaping salt and low temperature or an alternate life strategy?. Canadian Journal of Fisheries and Aquatic Sciences, 2007, 64, 793-802.	0.7	24
53	Metabolic fates and effects of nitrite in brown trout under normoxic and hypoxic conditions: blood and tissue nitrite metabolism and interactions with branchialNOS,Na+/K+-ATPaseandhsp70expression. Journal of Experimental Biology, 2015, 218, 2015-22.	0.8	24
54	Does Japanese medaka (Oryzias latipes) exhibit a gill Na+/K+-ATPase isoform switch during salinity change?. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 485-501.	0.7	21

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55	Tubular localization and expressional dynamics of aquaporins in the kidney of seawater-challenged Atlantic salmon. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 207-223.	0.7	20
56	Pre-migratory differentiation of wild brown trout into migrant and resident individuals. Journal of Fish Biology, 2003, 63, 1184-1196.	0.7	19
57	Effect of waterborne exposure to 4-tert-octylphenol and 17Î²-estradiol on smoltification and downstream migration in Atlantic salmon, Salmo salar. Aquatic Toxicology, 2006, 80, 23-32.	1.9	19
58	Transepithelial resistance and claudin expression in trout RTgill-W1 cell line: Effects of osmoregulatory hormones. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 182, 45-52.	0.8	17
59	Dynamic changes in nitric oxide synthase expression are involved in seawater acclimation of rainbow troutOncorhynchus mykiss. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R552-R562.	0.9	16
60	Osmoregulatory effects of hypophysectomy and homologous prolactin replacement in hybrid striped bass. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2005, 140, 211-218.	0.7	15
61	Differential Expression and Localization of Branchial AQP1 and AQP3 in Japanese Medaka (Oryzias) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	15
62	Uptake of 17Î²-estradiol and biomarker responses in brown trout (Salmo trutta) exposed to pulses. Environmental Pollution, 2011, 159, 3374-3380.	3.7	14
63	Silver nanoparticles cause osmoregulatory impairment and oxidative stress in Caspian kutum (Rutilus) Tj ETQq1 1 0.784314 rgBT /Ov	1.3	13
64	Sexual maturation and changes in water and salt transport components in the kidney and intestine of three-spined stickleback (Gasterosteus aculeatus L.). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 188, 107-119.	0.8	12
65	Gene expression profiling of proximal and distal renal tubules in Atlantic salmon (Salmo salar) acclimated to fresh water and seawater. American Journal of Physiology - Renal Physiology, 2020, 319, F380-F393.	1.3	12
66	Effects of 17Î²-trenbolone in male eelpout Zoarces viviparus exposed to ethinylestradiol. Analytical and Bioanalytical Chemistry, 2010, 396, 631-640.	1.9	11
67	Cortisol regulates nitric oxide synthase in freshwater and seawater acclimated rainbow trout, Oncorhynchus mykiss. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 204, 1-8.	0.8	9
68	Nitric oxide inhibition of NaCl secretion in the opercular epithelium of seawater-acclimated killifish, Fundulus heteroclitus. Journal of Experimental Biology, 2016, 219, 3455-3464.	0.8	8
69	Possible mode of seawater-adapting actions of growth hormone in salmonids. Aquaculture, 1994, 121, 291-292.	1.7	7
70	The Influence of Sex, Parasitism, and Ontogeny on the Physiological Response of European Eels (Anguilla anguilla) to an Abiotic Stressor. Physiological and Biochemical Zoology, 2018, 91, 976-986.	0.6	5
71	Differential expression of olfactory genes in Atlantic salmon (Salmo salar) during the parrâ€“smolt transformation. Ecology and Evolution, 2019, 9, 14085-14100.	0.8	5
72	Magnesium transport in the aglomerular kidney of the Gulf toadfish (Opsanus beta). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 865-880.	0.7	4

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73	Aquaporins in fishesâ€"expression, localization, and functional dynamics. Frontiers in Physiology, 2012, 3, 434.	1.3	3
74	Drinking and Water Handling in the Medaka Intestine: A Possible Role of Claudin-15 in Paracellular Absorption?. International Journal of Molecular Sciences, 2020, 21, 1853.	1.8	3
75	Regulation of the paracellular path in the salmonid gill: Molecular and cellular aspects of claudin-10e and claudin-30 expression. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S80-S81.	0.8	0