Kristina Sundell

List of Publications by Year
in descending order

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101	4,544	76326	118850
papers	citations	40 h-index	62 g-index

102	102	102	4360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aerobic scope fails to explain the detrimental effects on growth resulting from warming and elevated CO2 in Atlantic halibut. Journal of Experimental Biology, 2014, 217, 711-717.	1.7	197
2	Dietary soya saponins increase gut permeability and play a key role in the onset of soyabean-induced enteritis in Atlantic salmon (Salmo salar L.). British Journal of Nutrition, 2008, 100, 120-129.	2.3	188
3	Health of farmed fish: its relation to fish welfare and its utility as welfare indicator. Fish Physiology and Biochemistry, 2012, 38, 85-105.	2.3	172
4	Dilution of Seawater Affects the Ca2 + Transport in the Outer Mantle Epithelium of Crassostrea gigas. Frontiers in Physiology, 2020, 11, 1.	2.8	170
5	Acute stress alters intestinal function of rainbow trout, Oncorhynchus mykiss (Walbaum). Aquaculture, 2005, 250, 480-495.	3.5	137
6	Disturbance of the intestinal mucosal immune system of farmed Atlantic salmon (Salmo salar), in response to long-term hypoxic conditions. Fish and Shellfish Immunology, 2011, 31, 1072-1080.	3.6	116
7	Intestinal transport mechanisms and plasma cortisol levels during normal and out-of-season parrâ€“smolt transformation of Atlantic salmon, Salmo salar. Aquaculture, 2003, 222, 265-285.	3.5	114
8	Antimicrobial Peptides (AMPs) from Fish Epidermis: Perspectives for Investigative Dermatology. Journal of Investigative Dermatology, 2013, 133, 1140-1149.	0.7	111
9	Influence of salinity on the localization of Na+/K+-ATPase,Na+/K+/2Cl- cotransporter (NKCC) and CFTR anion channel in chloride cells of the Hawaiian goby (Stenogobius hawaiiensis). Journal of Experimental Biology, 2003, 206, 4575-4583.	1.7	109
10	Damaging effect of the fish pathogen Aeromonas salmonicida ssp. salmonicida on intestinal enterocytes of Atlantic salmon (Salmo salar L.). Cell and Tissue Research, 2004, 318, 305-311.	2.9	107
11	The impact of temperature on the metabolome and endocrine metabolic signals in Atlantic salmon (Salmo salar). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 164, 44-53.	1.8	105
12	Intestinal fluid absorption in anadromous salmonids: importance of tight junctions and aquaporins. Frontiers in Physiology, 2012, 3, 388.	2.8	99
13	Warmer water temperature results in oxidative damage in an Antarctic fish, the bald notothen. Journal of Experimental Marine Biology and Ecology, 2015, 468, 130-137.	1.5	94
14	Attraction and repulsion of mobile wild organisms to finfish and shellfish aquaculture: a review. Reviews in Aquaculture, 2018, 10, 924-949.	9.0	89
15	Chum salmon (Oncorhynchus keta) stanniocalcin inhibitis in vitro intestinal calcium uptake in Atlantic cod (Gadus morhua). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1992, 162, 489-95.	1.5	82
16	Cortisol Mediates the Increase in Intestinal Fluid Absorption in Atlantic Salmon during Parr-Smolt Transformation. General and Comparative Endocrinology, 1995, 97, 250-258.	1.8	81
17	Modulation of innate immune responses in Atlantic salmon by chronic hypoxia-induced stress. Fish and Shellfish Immunology, 2013, 34, 55-65.	3.6	75
18	The final countdown: Continuous physiological welfare evaluation of farmed fish during common aquaculture practices before and during harvest. Aquaculture, 2018, 495, 903-911.	3.5	75

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19	Intestinal barrier function of Atlantic salmon (Salmo salar L.) post smolts is reduced by common sea cage environments and suggested as a possible physiological welfare indicator. BMC Physiology, 2010, 10, 22.	3.6	74
20	Title is missing!. Fish Physiology and Biochemistry, 2002, 26, 211-221.	2.3	72
21	The acute stress response in fed and food deprived Atlantic cod, Gadus morhua L.. Aquaculture, 2008, 280, 232-241.	3.5	70
22	Parrâ€“smolt transformation and dietary vegetable lipids affect intestinal nutrient uptake, barrier function and plasma cortisol levels in Atlantic salmon. Aquaculture, 2007, 273, 298-311.	3.5	68
23	Born to be wild: effects of rearing density and environmental enrichment on stress, welfare, and smolt migration in hatchery-reared Atlantic salmon. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 396-405.	1.4	64
24	Deciphering mollusc shell production: the roles of genetic mechanisms through to ecology, aquaculture and biomimetics. Biological Reviews, 2020, 95, 1812-1837.	10.4	63
25	Translocation of viable Aeromonas salmonicida across the intestine of rainbow trout, Oncorhynchus mykiss (Walbaum). Journal of Fish Diseases, 2006, 29, 255-262.	1.9	56
26	Non-invasive measurement of cortisol and melatonin in tanks stocked with seawater Atlantic salmon. Aquaculture, 2007, 272, 698-706.	3.5	54
27	Effect of hyperoxygenation and low water flow on the primary stress response and susceptibility of Atlantic salmon Salmo salar L. to experimental challenge with IPN virus. Aquaculture, 2007, 270, 23-35.	3.5	53
28	Growth hormone endocrinology of Atlantic salmon (Salmo salar): pituitary gene expression, hormone storage, secretion and plasma levels during parr-smolt transformation. Journal of Endocrinology, 2001, 170, 227-234.	2.6	52
29	Atlantic Salmon Carries a Range of Novel O-Glycan Structures Differentially Localized on Skin and Intestinal Mucins. Journal of Proteome Research, 2015, 14, 3239-3251.	3.7	52
30	Stickleback sperm saved by salt in ovarian fluid. Journal of Experimental Biology, 2006, 209, 4230-4237.	1.7	49
31	Estradiol-17Î²-induced calcium uptake and resorption in juvenile rainbow trout, Oncorhynchus mykiss. Fish Physiology and Biochemistry, 1994, 13, 379-386.	2.3	46
32	Sn-2-monoacylglycerol, not glycerol, is preferentially utilised for triacylglycerol and phosphatidylcholine biosynthesis in Atlantic salmon (Salmo salar L.) intestine. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2007, 146, 115-123.	1.6	46
33	The involvement of Aeromonas salmonicida virulence factors in bacterial translocation across the rainbow trout, Oncorhynchus mykiss (Walbaum), intestine. Journal of Fish Diseases, 2008, 31, 141-151.	1.9	46
34	Effects of vitamin D3, 25(OH) vitamin D3, 24,25(OH)2 vitamin D3, and 1,25(OH)2 vitamin D3 on the in vitro intestinal calcium absorption in the marine teleost, Atlantic cod (Gadus morhua). General and Comparative Endocrinology, 1990, 78, 74-79.	1.8	44
35	1,25(OH)2 Vitamin D3 Increases Ionized Plasma Calcium Concentrations in the Immature Atlantic Cod Gadus morhua. General and Comparative Endocrinology, 1993, 91, 344-351.	1.8	44
36	Slow release cortisol implants result in impaired innate immune responses and higher infection prevalence following experimental challenge with infectious pancreatic necrosis virus in Atlantic salmon (Salmo salar) parr. Fish and Shellfish Immunology, 2012, 32, 637-644.	3.6	43

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37	Prospects and pitfalls of using heart rate bio-loggers to assess the welfare of rainbow trout (Oncorhynchus mykiss) in aquaculture. Aquaculture, 2019, 509, 188-197.	3.5	43
38	Development of intestinal ionâ€transporting mechanisms during smoltification and seawater acclimation in Atlantic salmon Salmo salar. Journal of Fish Biology, 2014, 85, 1227-1252.	1.6	42
39	Aeromonas salmonicida Binds Differentially to Mucins Isolated from Skin and Intestinal Regions of Atlantic Salmon in an N -Acetylneuraminic Acid-Dependent Manner. Infection and Immunity, 2014, 82, 5235-5245.	2.2	42
40	Evaluation of growth performance and intestinal barrier function in Arctic Charr (Salvelinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 mussel (Mytilus edulis). Aquaculture Nutrition, 2016, 22, 1348-1360.	2.7	41
41	Kinetics of Calcium Fluxes Across The Intestinal Mucosa of the Marine Teleost, Gadus Morhua, Measured Using an in vitro Perfusion Method. Journal of Experimental Biology, 1988, 140, 171-186.	1.7	41
42	Physiological characteristics of wild Atlantic salmon post-smolts during estuarine and coastal migration. Journal of Fish Biology, 2003, 63, 942-955.	1.6	40
43	Translocation of infectious pancreatic necrosis virus across the intestinal epithelium of Atlantic salmon (Salmo salar L.). Aquaculture, 2011, 321, 85-92.	3.5	40
44	Physiological Concentrations of 24,25-Dihydroxyvitamin D3 Rapidly Decrease the in Vitro Intestinal Calcium Uptake in the Atlantic Cod, Gadus morhua. General and Comparative Endocrinology, 1995, 100, 211-217.	1.8	38
45	Ca 2+ Uptake Through Voltage-gated L-type Ca 2+ Channels by Polarized Enterocytes from Atlantic Cod Gadus morhua. Journal of Membrane Biology, 1998, 164, 229-237.	2.1	38
46	The effect of hyperoxygenation and reduced flow in fresh water and subsequent infectious pancreatic necrosis virus challenge in sea water, on the intestinal barrier integrity in Atlantic salmon, Salmo salar L.. Journal of Fish Diseases, 2009, 32, 687-698.	1.9	38
47	Calcium transfer across the outer mantle epithelium in the Pacific oyster,Crassostrea gigas. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181676.	2.6	36
48	Remote physiological monitoring provides unique insights on the cardiovascular performance and stress responses of freely swimming rainbow trout in aquaculture. Scientific Reports, 2019, 9, 9090.	3.3	35
49	Pituitary gene expression of somatolactin, prolactin, and growth hormone during Atlantic salmon parrâ€“smolt transformation. Aquaculture, 2003, 222, 229-238.	3.5	34
50	Wild and hatchery-reared brown trout, Salmo trutta, differ in smolt related characteristics during parrâ€“smolt transformation. Aquaculture, 1998, 167, 53-65.	3.5	32
51	Response to â€˜How and how not to investigate the oxygen and capacity limitation of thermal tolerance (OCLTT) and aerobic scope â€“ remarks on the article by GrÃ¤ns et al.â€™. Journal of Experimental Biology, 2014, 217, 4433-4435.	1.7	31
52	Molecular Characterization of the Î±-Subunit of Na+/K+ ATPase from the Euryhaline Barnacle Balanus improvisus Reveals Multiple Genes and Differential Expression of Alternative Splice Variants. PLoS ONE, 2013, 8, e77069.	2.5	31
53	The Effect of pH and Temperature on the Dissociation Constant for Fura-2 and Their Effects on [Ca2+]i in Enterocytes from a Poikilothermic Animal, Atlantic Cod (Gadus morhua). Analytical Biochemistry, 1999, 273, 60-65.	2.4	30
54	Reduced water quality associated with higher stocking density disturbs the intestinal barrier functions of Atlantic salmon (Salmo salar L.). Aquaculture, 2019, 512, 734356.	3.5	30

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55	Calcium mobilisation following shell damage in the Pacific oyster, Crassostrea gigas. Marine Genomics, 2016, 27, 75-83.	1.1	28
56	Analysis of aquaporins from the euryhaline barnacle Balanus improvisus reveals differential expression in response to changes in salinity. PLoS ONE, 2017, 12, e0181192.	2.5	27
57	Prevalence and severity of cardiac abnormalities and arteriosclerosis in farmed rainbow trout (Oncorhynchus mykiss). Aquaculture, 2020, 526, 735417.	3.5	26
58	A vegetable oil feeding history affects digestibility and intestinal fatty acid uptake in juvenile rainbow trout Oncorhynchus mykiss. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 152, 552-559.	1.8	24
59	Stunning fish with CO2 or electricity: contradictory results on behavioural and physiological stress responses. Animal, 2016, 10, 294-301.	3.3	23
60	Effects of Cortisol on the Intestinal Mucosal Immune Response during Cohabitant Challenge with IPNV in Atlantic Salmon (Salmo salar). PLoS ONE, 2014, 9, e94288.	2.5	23
61	Cortisol stimulates intestinal fluid uptake in Atlantic salmon (Salmo salar) in the post-smolt stage. Fish Physiology and Biochemistry, 1994, 13, 183-190.	2.3	22
62	Environmental Salinity Regulates Receptor Expression, Cellular Effects, and Circulating Levels of Two Antagonizing Hormones, 1,25-Dihydroxyvitamin D3 and 24,25-Dihydroxyvitamin D3, in Rainbow Trout. Endocrinology, 2003, 144, 559-566.	2.8	22
63	Aeromonas salmonicida Growth in Response to Atlantic Salmon Mucins Differs between Epithelial Sites, Is Governed by Sialylated and N -Acetylhexosamine-Containing O -Glycans, and Is Affected by Ca ²⁺. Infection and Immunity, 2017, 85, .	2.2	22
64	Increased mitochondrial coupling and anaerobic capacity minimizes aerobic costs of trout in the sea. Scientific Reports, 2017, 7, 45778.	3.3	22
65	Fish welfare, fast muscle cellularity, fatty acid and body-composition of juvenile spotted wolffish (Anarhichas minor) fed a combination of plant proteins and microalgae (Nannochloropsis oceanica). Aquaculture, 2019, 506, 212-223.	3.5	22
66	Antagonistic effects of 24R,25-dihydroxyvitamin D3 and 25-hydroxyvitamin D3 on L-type Ca2+ channels and Na+/Ca2+ exchange in enterocytes from Atlantic cod (Gadus morhua). Journal of Molecular Endocrinology, 2002, 28, 53-68.	2.5	21
67	The brain-gut axis of fish: Rainbow trout with low and high cortisol response show innate differences in intestinal integrity and brain gene expression. General and Comparative Endocrinology, 2018, 257, 235-245.	1.8	21
68	Haematological and intestinal health parameters of rainbow trout are influenced by dietary live yeast and increased water temperature. Fish and Shellfish Immunology, 2019, 89, 525-536.	3.6	21
69	A specific binding moiety for 1,25-dihydroxyvitamin D3 in basal lateral membranes of carp enterocytes. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E614-E621.	3.5	20
70	Evaluation of chitinolytic activities and membrane integrity in gut tissues of Arctic charr (Salvelinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Biochemistry and Molecular Biology, 2014, 175, 1-8.	1.6	20
71	Putative basal lateral membrane receptors for 24,25-dihydroxyvitamin D3 in carp and Atlantic cod enterocytes: Characterization of binding and effects on intracellular calcium regulation. Journal of Cellular Biochemistry, 2001, 83, 171-186.	2.6	18
72	Fish pathogen binding to mucins from Atlantic salmon and Arctic char differs in avidity and specificity and is modulated by fluid velocity. PLoS ONE, 2019, 14, e0215583.	2.5	18

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73	Effects of Size and Geographical Origin on Atlantic salmon, Salmo salar, Mucin O-Glycan Repertoire. Molecular and Cellular Proteomics, 2019, 18, 1183-1196.	3.8	18
74	Comparative survival and growth performance of European lobster larvae,Homarus gammarus, reared on dry feed and conspecifics. Aquaculture Research, 2017, 48, 5300-5310.	1.8	17
75	Exploring the Arctic Charr Intestinal Glycome: Evidence of Increased N-Glycolylneuraminic Acid Levels and Changed Hostâ€“Pathogen Interactions in Response to Inflammation. Journal of Proteome Research, 2019, 18, 1760-1773.	3.7	17
76	Species differences in cerebral taurine concentrations correlate with brain water content. Brain Research, 1991, 548, 267-272.	2.2	16
77	Physiological responses and welfare implications of rapid hypothermia and immobilisation with high levels of CO2 at two temperatures in Arctic char (Salvelinus alpinus). Aquaculture, 2013, 402-403, 146-151.	3.5	16
78	Effects of electric field exposure on blood pressure, cardioventilatory activity and the physiological stress response in Arctic char, Salvelinus alpinus L.. Aquaculture, 2012, 344-349, 135-140.	3.5	14
79	Stress responses in Arctic char (Salvelinus alpinus L.) during hyperoxic carbon dioxide immobilization relevant to aquaculture. Aquaculture, 2013, 414-415, 254-259.	3.5	14
80	Aquafeed ingredient production from herring (Clupea harengus) by-products using pH-shift processing: Effect from by-product combinations, protein solubilization-pH and centrifugation force. Animal Feed Science and Technology, 2019, 247, 273-284.	2.2	14
81	Comparative survival and growth performance of European lobster Homarus gammarus postâ€larva reared on novel feeds. Aquaculture Research, 2020, 51, 102-113.	1.8	13
82	Plasma growth hormoneâ€binding protein levels in Atlantic salmon Salmo salar during smoltification and seawater transfer. Journal of Fish Biology, 2014, 85, 1279-1296.	1.6	12
83	Osmoregulation in Barnacles: An Evolutionary Perspective of Potential Mechanisms and Future Research Directions. Frontiers in Physiology, 2019, 10, 877.	2.8	12
84	Effects of prophylactic antibiotic-treatment on post-surgical recovery following intraperitoneal bio-logger implantation in rainbow trout. Scientific Reports, 2020, 10, 5583.	3.3	12
85	Population-dependent effects of ocean acidification. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160163.	2.6	11
86	Stress Impairs Skin Barrier Function and Induces Î±2-3 Linked N-Acetylneuraminic Acid and Core 1 O-Glycans on Skin Mucins in Atlantic Salmon, Salmo salar. International Journal of Molecular Sciences, 2021, 22, 1488.	4.1	11
87	Rainbow trout gastrointestinal mucus, mucin production, mucin glycosylation and response to lipopolysaccharide. Fish and Shellfish Immunology, 2022, 122, 181-190.	3.6	11
88	Environmental salinity regulates the in vitro production of [3H]-1,25-dihydroxyvitamin D3 and [3H]-24,25 dihydroxyvitamin D3 in rainbow trout (Oncorhynchus mykiss). General and Comparative Endocrinology, 2007, 152, 252-258.	1.8	10
89	Gill Mucus and Gill Mucin O-glycosylation in Healthy and Amebic Gill Disease-Affected Atlantic Salmon. Microorganisms, 2020, 8, 1871.	3.6	10
90	High risk no gain-metabolic performance of hatchery reared Atlantic salmon smolts, effects of nest emergence time, hypoxia avoidance behaviour and size. Physiology and Behavior, 2017, 175, 104-112.	2.1	8

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91	Adaptability of two phenotypes of Littorina saxatilis (Olivi) to different salinities. Journal of Experimental Marine Biology and Ecology, 1985, 92, 115-123.	1.5	7
92	Effects of coeliacomesenteric blood flow reduction on intestinal barrier function in rainbow trout Oncorhynchus mykiss. Journal of Fish Biology, 2018, 93, 519-527.	1.6	7
93	Continuous physiological welfare evaluation of European whitefish (Coregonus lavaretus) during common aquaculture practices leading up to slaughter. Aquaculture, 2021, 534, 736258.	3.5	7
94	Flounder with partial intestine osmoregulate in seawater. Fish Physiology and Biochemistry, 2000, 23, 159-164.	2.3	6
95	Atlantic Salmon Mucins Inhibit LuxS-Dependent A. Salmonicida AI-2 Quorum Sensing in an N-Acetylneuraminic Acid-Dependent Manner. International Journal of Molecular Sciences, 2022, 23, 4326.	4.1	4
96	Gonadal Maturation, Calcium Metabolism, Osmoregulatory Ability, and Plasma Hormones during Spawning Migration of Atlantic Salmon. Annals of the New York Academy of Sciences, 1998, 839, 440-441.	3.8	2
97	Low Holding Densities Increase Stress Response and Aggression in Zebrafish. Biology, 2022, 11, 725.	2.8	2
98	Cells to shells: The genomics of mollusc exoskeletons. Marine Genomics, 2016, 27, 1-2.	1.1	1
99	Structural and functional maturation of skin during metamorphosis in the Atlantic halibut (Hippoglossus hippoglossus). Cell and Tissue Research, 2018, 372, 469-492.	2.9	1
100	Low Omega-3 Levels in the Diet Disturbs Intestinal Barrier and Transporting Functions of Atlantic Salmon Freshwater and Seawater Smolts. Frontiers in Physiology, 2022, 13, 883621.	2.8	1
101	Health of farmed fish: its relation to fish welfare and its utility as welfare indicator. , 2011, , 85-105.		0