

Kristina Sundell

List of Publications by Year in descending order

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101
papers

4,544
citations

76294

40
h-index

118793

62
g-index

102
all docs

102
docs citations

102
times ranked

4360
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerobic scope fails to explain the detrimental effects on growth resulting from warming and elevated CO ₂ in Atlantic halibut. <i>Journal of Experimental Biology</i> , 2014, 217, 711-717.	0.8	197
2	Dietary soya saponins increase gut permeability and play a key role in the onset of soyabean-induced enteritis in Atlantic salmon (<i>Salmo salar</i> L.). <i>British Journal of Nutrition</i> , 2008, 100, 120-129.	1.2	188
3	Health of farmed fish: its relation to fish welfare and its utility as welfare indicator. <i>Fish Physiology and Biochemistry</i> , 2012, 38, 85-105.	0.9	172
4	Dilution of Seawater Affects the Ca ²⁺ Transport in the Outer Mantle Epithelium of <i>Crassostrea gigas</i> . <i>Frontiers in Physiology</i> , 2020, 11, 1.	1.3	170
5	Acute stress alters intestinal function of rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum). <i>Aquaculture</i> , 2005, 250, 480-495.	1.7	137
6	Disturbance of the intestinal mucosal immune system of farmed Atlantic salmon (<i>Salmo salar</i>), in response to long-term hypoxic conditions. <i>Fish and Shellfish Immunology</i> , 2011, 31, 1072-1080.	1.6	116
7	Intestinal transport mechanisms and plasma cortisol levels during normal and out-of-season parrâ€smolt transformation of Atlantic salmon, <i>Salmo salar</i> . <i>Aquaculture</i> , 2003, 222, 265-285.	1.7	114
8	Antimicrobial Peptides (AMPs) from Fish Epidermis: Perspectives for Investigative Dermatology. <i>Journal of Investigative Dermatology</i> , 2013, 133, 1140-1149.	0.3	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 (<i>Stenogobius hawaiiensis</i>). <i>Journal of Experimental Biology</i> , 2003, 206, 4575-4583.	0.8	109
10	Damaging effect of the fish pathogen <i>Aeromonas salmonicida</i> ssp. <i>salmonicida</i> on intestinal enterocytes of Atlantic salmon (<i>Salmo salar</i> L.). <i>Cell and Tissue Research</i> , 2004, 318, 305-311.	1.5	107
11	The impact of temperature on the metabolome and endocrine metabolic signals in Atlantic salmon (<i>Salmo salar</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013, 164, 44-53.	0.8	105
12	Intestinal fluid absorption in anadromous salmonids: importance of tight junctions and aquaporins. <i>Frontiers in Physiology</i> , 2012, 3, 388.	1.3	99
13	Warmer water temperature results in oxidative damage in an Antarctic fish, the bald notothen. <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 468, 130-137.	0.7	94
14	Attraction and repulsion of mobile wild organisms to finfish and shellfish aquaculture: a review. <i>Reviews in Aquaculture</i> , 2018, 10, 924-949.	4.6	89
15	Chum salmon (<i>Oncorhynchus keta</i>) stanniocalcin inhibits in vitro intestinal calcium uptake in Atlantic cod (<i>Gadus morhua</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1992, 162, 489-95.	0.7	82
16	Cortisol Mediates the Increase in Intestinal Fluid Absorption in Atlantic Salmon during Parr-Smolt Transformation. <i>General and Comparative Endocrinology</i> , 1995, 97, 250-258.	0.8	81
17	Modulation of innate immune responses in Atlantic salmon by chronic hypoxia-induced stress. <i>Fish and Shellfish Immunology</i> , 2013, 34, 55-65.	1.6	75
18	The final countdown: Continuous physiological welfare evaluation of farmed fish during common aquaculture practices before and during harvest. <i>Aquaculture</i> , 2018, 495, 903-911.	1.7	75

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19	Intestinal barrier function of Atlantic salmon (<i>Salmo salar</i> L.) post smolts is reduced by common sea cage environments and suggested as a possible physiological welfare indicator. <i>BMC Physiology</i> , 2010, 10, 22.	3.6	74
20	Title is missing!. <i>Fish Physiology and Biochemistry</i> , 2002, 26, 211-221.	0.9	72
21	The acute stress response in fed and food deprived Atlantic cod, <i>Gadus morhua</i> L.. <i>Aquaculture</i> , 2008, 280, 232-241.	1.7	70
22	Parr-smolt transformation and dietary vegetable lipids affect intestinal nutrient uptake, barrier function and plasma cortisol levels in Atlantic salmon. <i>Aquaculture</i> , 2007, 273, 298-311.	1.7	68
23	Born to be wild: effects of rearing density and environmental enrichment on stress, welfare, and smolt migration in hatchery-reared Atlantic salmon. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2017, 74, 396-405.	0.7	64
24	Deciphering mollusc shell production: the roles of genetic mechanisms through to ecology, aquaculture and biomimetics. <i>Biological Reviews</i> , 2020, 95, 1812-1837.	4.7	63
25	Translocation of viable <i>Aeromonas salmonicida</i> across the intestine of rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum). <i>Journal of Fish Diseases</i> , 2006, 29, 255-262.	0.9	56
26	Non-invasive measurement of cortisol and melatonin in tanks stocked with seawater Atlantic salmon. <i>Aquaculture</i> , 2007, 272, 698-706.	1.7	54
27	Effect of hyperoxygenation and low water flow on the primary stress response and susceptibility of Atlantic salmon <i>Salmo salar</i> L. to experimental challenge with IPN virus. <i>Aquaculture</i> , 2007, 270, 23-35.	1.7	53
28	Growth hormone endocrinology of Atlantic salmon (<i>Salmo salar</i>): pituitary gene expression, hormone storage, secretion and plasma levels during parr-smolt transformation. <i>Journal of Endocrinology</i> , 2001, 170, 227-234.	1.2	52
29	Atlantic Salmon Carries a Range of Novel O-Glycan Structures Differentially Localized on Skin and Intestinal Mucins. <i>Journal of Proteome Research</i> , 2015, 14, 3239-3251.	1.8	52
30	Stickleback sperm saved by salt in ovarian fluid. <i>Journal of Experimental Biology</i> , 2006, 209, 4230-4237.	0.8	49
31	Estradiol-17 β -induced calcium uptake and resorption in juvenile rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Fish Physiology and Biochemistry</i> , 1994, 13, 379-386.	0.9	46
32	Sn-2-monoacylglycerol, not glycerol, is preferentially utilised for triacylglycerol and phosphatidylcholine biosynthesis in Atlantic salmon (<i>Salmo salar</i> L.) intestine. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2007, 146, 115-123.	0.7	46
33	The involvement of <i>Aeromonas salmonicida</i> virulence factors in bacterial translocation across the rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum), intestine. <i>Journal of Fish Diseases</i> , 2008, 31, 141-151.	0.9	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 (<i>Gadus morhua</i>). <i>General and Comparative Endocrinology</i> , 1990, 78, 74-79.	0.8	44
35	1,25(OH) ₂ Vitamin D3 Increases Ionized Plasma Calcium Concentrations in the Immature Atlantic Cod <i>Gadus morhua</i> . <i>General and Comparative Endocrinology</i> , 1993, 91, 344-351.	0.8	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 (<i>Salmo salar</i>) parr. <i>Fish and Shellfish Immunology</i> , 2012, 32, 637-644.	1.6	43

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37	Prospects and pitfalls of using heart rate bio-loggers to assess the welfare of rainbow trout (<i>Oncorhynchus mykiss</i>) in aquaculture. <i>Aquaculture</i> , 2019, 509, 188-197.	1.7	43
38	Development of intestinal ion-transporting mechanisms during smoltification and seawater acclimation in Atlantic salmon (<i>Salmo salar</i>). <i>Journal of Fish Biology</i> , 2014, 85, 1227-1252.	0.7	42
39	<i>Aeromonas salmonicida</i> Binds Differentially to Mucins Isolated from Skin and Intestinal Regions of Atlantic Salmon in an N-Acetylneuraminic Acid-Dependent Manner. <i>Infection and Immunity</i> , 2014, 82, 5235-5245.	1.0	42
40	Evaluation of growth performance and intestinal barrier function in Arctic Charr (<i>Salvelinus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 mussel (<i>Mytilus edulis</i>). <i>Aquaculture Nutrition</i> , 2016, 22, 1348-1360.	1.1	41
41	Kinetics of Calcium Fluxes Across The Intestinal Mucosa of the Marine Teleost, <i>Gadus Morhua</i> , Measured Using an <i>in vitro</i> Perfusion Method. <i>Journal of Experimental Biology</i> , 1988, 140, 171-186.	0.8	41
42	Physiological characteristics of wild Atlantic salmon post-smolts during estuarine and coastal migration. <i>Journal of Fish Biology</i> , 2003, 63, 942-955.	0.7	40
43	Translocation of infectious pancreatic necrosis virus across the intestinal epithelium of Atlantic salmon (<i>Salmo salar</i> L.). <i>Aquaculture</i> , 2011, 321, 85-92.	1.7	40
44	Physiological Concentrations of 24,25-Dihydroxyvitamin D3 Rapidly Decrease the <i>in Vitro</i> Intestinal Calcium Uptake in the Atlantic Cod, <i>Gadus morhua</i> . <i>General and Comparative Endocrinology</i> , 1995, 100, 211-217.	0.8	38
45	Ca ²⁺ Uptake Through Voltage-gated L-type Ca ²⁺ Channels by Polarized Enterocytes from Atlantic Cod <i>Gadus morhua</i> . <i>Journal of Membrane Biology</i> , 1998, 164, 229-237.	1.0	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, <i>Salmo salar</i> L.. <i>Journal of Fish Diseases</i> , 2009, 32, 687-698.	0.9	38
47	Calcium transfer across the outer mantle epithelium in the Pacific oyster, <i>Crassostrea gigas</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181676.	1.2	36
48	Remote physiological monitoring provides unique insights on the cardiovascular performance and stress responses of freely swimming rainbow trout in aquaculture. <i>Scientific Reports</i> , 2019, 9, 9090.	1.6	35
49	Pituitary gene expression of somatolactin, prolactin, and growth hormone during Atlantic salmon parr-smolt transformation. <i>Aquaculture</i> , 2003, 222, 229-238.	1.7	34
50	Wild and hatchery-reared brown trout, <i>Salmo trutta</i> , differ in smolt related characteristics during parr-smolt transformation. <i>Aquaculture</i> , 1998, 167, 53-65.	1.7	32
51	Response to "How and how not to investigate the oxygen and capacity limitation of thermal tolerance (OCLTT) and aerobic scope" remarks on the article by GrÅns et al.™. <i>Journal of Experimental Biology</i> , 2014, 217, 4433-4435.	0.8	31
52	Molecular Characterization of the Î±-Subunit of Na ⁺ /K ⁺ ATPase from the Euryhaline Barnacle <i>Balanus improvisus</i> Reveals Multiple Genes and Differential Expression of Alternative Splice Variants. <i>PLoS ONE</i> , 2013, 8, e77069.	1.1	31
53	The Effect of pH and Temperature on the Dissociation Constant for Fura-2 and Their Effects on [Ca ²⁺] _i in Enterocytes from a Poikilothermic Animal, Atlantic Cod (<i>Gadus morhua</i>). <i>Analytical Biochemistry</i> , 1999, 273, 60-65.	1.1	30
54	Reduced water quality associated with higher stocking density disturbs the intestinal barrier functions of Atlantic salmon (<i>Salmo salar</i> L.). <i>Aquaculture</i> , 2019, 512, 734356.	1.7	30

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55	Calcium mobilisation following shell damage in the Pacific oyster, <i>Crassostrea gigas</i> . <i>Marine Genomics</i> , 2016, 27, 75-83.	0.4	28
56	Analysis of aquaporins from the euryhaline barnacle <i>Balanus improvisus</i> reveals differential expression in response to changes in salinity. <i>PLoS ONE</i> , 2017, 12, e0181192.	1.1	27
57	Prevalence and severity of cardiac abnormalities and arteriosclerosis in farmed rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2020, 526, 735417.	1.7	26
58	A vegetable oil feeding history affects digestibility and intestinal fatty acid uptake in juvenile rainbow trout <i>Oncorhynchus mykiss</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 152, 552-559.	0.8	24
59	Stunning fish with CO ₂ or electricity: contradictory results on behavioural and physiological stress responses. <i>Animal</i> , 2016, 10, 294-301.	1.3	23
60	Effects of Cortisol on the Intestinal Mucosal Immune Response during Cohabitant Challenge with IPNV in Atlantic Salmon (<i>Salmo salar</i>). <i>PLoS ONE</i> , 2014, 9, e94288.	1.1	23
61	Cortisol stimulates intestinal fluid uptake in Atlantic salmon (<i>Salmo salar</i>) in the post-smolt stage. <i>Fish Physiology and Biochemistry</i> , 1994, 13, 183-190.	0.9	22
62	Environmental Salinity Regulates Receptor Expression, Cellular Effects, and Circulating Levels of Two Antagonizing Hormones, 1,25-Dihydroxyvitamin D ₃ and 24,25-Dihydroxyvitamin D ₃ , in Rainbow Trout. <i>Endocrinology</i> , 2003, 144, 559-566.	1.4	22
63	<i>Aeromonas salmonicida</i> 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⁺ . <i>Infection and Immunity</i> , 2017, 85, .	1.0	22
64	Increased mitochondrial coupling and anaerobic capacity minimizes aerobic costs of trout in the sea. <i>Scientific Reports</i> , 2017, 7, 45778.	1.6	22
65	Fish welfare, fast muscle cellularity, fatty acid and body-composition of juvenile spotted wolffish (<i>Anarhichas minor</i>) fed a combination of plant proteins and microalgae (<i>Nannochloropsis oceanica</i>). <i>Aquaculture</i> , 2019, 506, 212-223.	1.7	22
66	Antagonistic effects of 24R,25-dihydroxyvitamin D ₃ and 25-hydroxyvitamin D ₃ on L-type Ca ²⁺ channels and Na ⁺ /Ca ²⁺ exchange in enterocytes from Atlantic cod (<i>Gadus morhua</i>). <i>Journal of Molecular Endocrinology</i> , 2002, 28, 53-68.	1.1	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. <i>General and Comparative Endocrinology</i> , 2018, 257, 235-245.	0.8	21
68	Haematological and intestinal health parameters of rainbow trout are influenced by dietary live yeast and increased water temperature. <i>Fish and Shellfish Immunology</i> , 2019, 89, 525-536.	1.6	21
69	A specific binding moiety for 1,25-dihydroxyvitamin D ₃ in basal lateral membranes of carp enterocytes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 279, E614-E621.	1.8	20
70	Evaluation of chitinolytic activities and membrane integrity in gut tissues of Arctic charr (<i>Salvelinus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 <i>Biochemistry and Molecular Biology</i> , 2014, 175, 1-8.	0.7	20
71	Putative basal lateral membrane receptors for 24,25-dihydroxyvitamin D ₃ in carp and Atlantic cod enterocytes: Characterization of binding and effects on intracellular calcium regulation. <i>Journal of Cellular Biochemistry</i> , 2001, 83, 171-186.	1.2	18
72	Fish pathogen binding to mucins from Atlantic salmon and Arctic char differs in avidity and specificity and is modulated by fluid velocity. <i>PLoS ONE</i> , 2019, 14, e0215583.	1.1	18

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73	Effects of Size and Geographical Origin on Atlantic salmon, <i>Salmo salar</i> , Mucin O-Glycan Repertoire. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 1183-1196.	2.5	18
74	Comparative survival and growth performance of European lobster larvae, <i>Homarus gammarus</i> , reared on dry feed and conspecifics. <i>Aquaculture Research</i> , 2017, 48, 5300-5310.	0.9	17
75	Exploring the Arctic Charr Intestinal Glycome: Evidence of Increased N-Glycolylneuraminic Acid Levels and Changed Host-Pathogen Interactions in Response to Inflammation. <i>Journal of Proteome Research</i> , 2019, 18, 1760-1773.	1.8	17
76	Species differences in cerebral taurine concentrations correlate with brain water content. <i>Brain Research</i> , 1991, 548, 267-272.	1.1	16
77	Physiological responses and welfare implications of rapid hypothermia and immobilisation with high levels of CO ₂ at two temperatures in Arctic char (<i>Salvelinus alpinus</i>). <i>Aquaculture</i> , 2013, 402-403, 146-151.	1.7	16
78	Effects of electric field exposure on blood pressure, cardioventilatory activity and the physiological stress response in Arctic char, <i>Salvelinus alpinus</i> L.. <i>Aquaculture</i> , 2012, 344-349, 135-140.	1.7	14
79	Stress responses in Arctic char (<i>Salvelinus alpinus</i> L.) during hyperoxic carbon dioxide immobilization relevant to aquaculture. <i>Aquaculture</i> , 2013, 414-415, 254-259.	1.7	14
80	Aquafeed ingredient production from herring (<i>Clupea harengus</i>) by-products using pH-shift processing: Effect from by-product combinations, protein solubilization-pH and centrifugation force. <i>Animal Feed Science and Technology</i> , 2019, 247, 273-284.	1.1	14
81	Comparative survival and growth performance of European lobster <i>Homarus gammarus</i> post-larva reared on novel feeds. <i>Aquaculture Research</i> , 2020, 51, 102-113.	0.9	13
82	Plasma growth hormone-binding protein levels in Atlantic salmon <i>Salmo salar</i> during smoltification and seawater transfer. <i>Journal of Fish Biology</i> , 2014, 85, 1279-1296.	0.7	12
83	Osmoregulation in Barnacles: An Evolutionary Perspective of Potential Mechanisms and Future Research Directions. <i>Frontiers in Physiology</i> , 2019, 10, 877.	1.3	12
84	Effects of prophylactic antibiotic-treatment on post-surgical recovery following intraperitoneal bio-logger implantation in rainbow trout. <i>Scientific Reports</i> , 2020, 10, 5583.	1.6	12
85	Population-dependent effects of ocean acidification. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160163.	1.2	11
86	Stress Impairs Skin Barrier Function and Induces \pm 2-3 Linked N-Acetylneuraminic Acid and Core 1 O-Glycans on Skin Mucins in Atlantic Salmon, <i>Salmo salar</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 1488.	1.8	11
87	Rainbow trout gastrointestinal mucus, mucin production, mucin glycosylation and response to lipopolysaccharide. <i>Fish and Shellfish Immunology</i> , 2022, 122, 181-190.	1.6	11
88	Environmental salinity regulates the in vitro production of [3H]-1,25-dihydroxyvitamin D ₃ and [3H]-24,25 dihydroxyvitamin D ₃ in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>General and Comparative Endocrinology</i> , 2007, 152, 252-258.	0.8	10
89	Gill Mucus and Gill Mucin O-glycosylation in Healthy and Amebic Gill Disease-Affected Atlantic Salmon. <i>Microorganisms</i> , 2020, 8, 1871.	1.6	10
90	High risk no gain-metabolic performance of hatchery reared Atlantic salmon smolts, effects of nest emergence time, hypoxia avoidance behaviour and size. <i>Physiology and Behavior</i> , 2017, 175, 104-112.	1.0	8

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91	Adaptability of two phenotypes of <i>Littorina saxatilis</i> (Olivi) to different salinities. <i>Journal of Experimental Marine Biology and Ecology</i> , 1985, 92, 115-123.	0.7	7
92	Effects of coeliacomesenteric blood flow reduction on intestinal barrier function in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Journal of Fish Biology</i> , 2018, 93, 519-527.	0.7	7
93	Continuous physiological welfare evaluation of European whitefish (<i>Coregonus lavaretus</i>) during common aquaculture practices leading up to slaughter. <i>Aquaculture</i> , 2021, 534, 736258.	1.7	7
94	Flounder with partial intestine osmoregulate in seawater. <i>Fish Physiology and Biochemistry</i> , 2000, 23, 159-164.	0.9	6
95	Atlantic Salmon Mucins Inhibit LuxS-Dependent A. Salmonicida AI-2 Quorum Sensing in an N-Acetylneuraminic Acid-Dependent Manner. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4326.	1.8	4
96	Gonadal Maturation, Calcium Metabolism, Osmoregulatory Ability, and Plasma Hormones during Spawning Migration of Atlantic Salmon. <i>Annals of the New York Academy of Sciences</i> , 1998, 839, 440-441.	1.8	2
97	Low Holding Densities Increase Stress Response and Aggression in Zebrafish. <i>Biology</i> , 2022, 11, 725.	1.3	2
98	Cells to shells: The genomics of mollusc exoskeletons. <i>Marine Genomics</i> , 2016, 27, 1-2.	0.4	1
99	Structural and functional maturation of skin during metamorphosis in the Atlantic halibut (<i>Hippoglossus hippoglossus</i>). <i>Cell and Tissue Research</i> , 2018, 372, 469-492.	1.5	1
100	Low Omega-3 Levels in the Diet Disturbs Intestinal Barrier and Transporting Functions of Atlantic Salmon Freshwater and Seawater Smolts. <i>Frontiers in Physiology</i> , 2022, 13, 883621.	1.3	1
101	Health of farmed fish: its relation to fish welfare and its utility as welfare indicator. , 2011, , 85-105.		0