Kristina Sundell

List of Publications by Year
in descending order

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	Rainbow trout gastrointestinal mucus, mucin production, mucin glycosylation and response to lipopolysaccharide. Fish and Shellfish Immunology, 2022, 122, 181-190.	1.6	11
2	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.	1.8	4
3	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.	1.3	1
4	Low Holding Densities Increase Stress Response and Aggression in Zebrafish. Biology, 2022, 11, 725.	1.3	2
5	Continuous physiological welfare evaluation of European whitefish (Coregonus lavaretus) during common aquaculture practices leading up to slaughter. Aquaculture, 2021, 534, 736258.	1.7	7
6	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.	1.8	11
7	Comparative survival and growth performance of European lobster <i>Homarus gammarus</i> postâ€larva reared on novel feeds. Aquaculture Research, 2020, 51, 102-113.	0.9	13
8	Gill Mucus and Gill Mucin O-glycosylation in Healthy and Amebic Gill Disease-Affected Atlantic Salmon. Microorganisms, 2020, 8, 1871.	1.6	10
9	Deciphering mollusc shell production: the roles of genetic mechanisms through to ecology, aquaculture and biomimetics. Biological Reviews, 2020, 95, 1812-1837.	4.7	63
10	Prevalence and severity of cardiac abnormalities and arteriosclerosis in farmed rainbow trout (Oncorhynchus mykiss). Aquaculture, 2020, 526, 735417.	1.7	26
11	Dilution of Seawater Affects the Ca2 + Transport in the Outer Mantle Epithelium of Crassostrea gigas. Frontiers in Physiology, 2020, 11, 1.	1.3	170
12	Effects of prophylactic antibiotic-treatment on post-surgical recovery following intraperitoneal bio-logger implantation in rainbow trout. Scientific Reports, 2020, 10, 5583.	1.6	12
13	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.	1.1	14
14	Reduced water quality associated with higher stocking density disturbs the intestinal barrier functions of Atlantic salmon (Salmo salar L.). Aquaculture, 2019, 512, 734356.	1.7	30
15	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.	1.6	35
16	Osmoregulation in Barnacles: An Evolutionary Perspective of Potential Mechanisms and Future Research Directions. Frontiers in Physiology, 2019, 10, 877.	1.3	12
17	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.	1.1	18
18	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.	1.6	21

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19	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.	1.7	43
20	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.	1.7	22
21	Effects of Size and Geographical Origin on Atlantic salmon, Salmo salar, Mucin O-Glycan Repertoire. Molecular and Cellular Proteomics, 2019, 18, 1183-1196.	2.5	18
22	Exploring the Arctic Charr Intestinal Glycome: Evidence of Increased <i>N</i>-Glycolylneuraminic Acid Levels and Changed Hostâ€“Pathogen Interactions in Response to Inflammation. Journal of Proteome Research, 2019, 18, 1760-1773.	1.8	17
23	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.	0.8	21
24	Attraction and repulsion of mobile wild organisms to finfish and shellfish aquaculture: a review. Reviews in Aquaculture, 2018, 10, 924-949.	4.6	89
25	Calcium transfer across the outer mantle epithelium in the Pacific oyster, <i>Crassostrea gigas</i>. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181676.	1.2	36
26	The final countdown: Continuous physiological welfare evaluation of farmed fish during common aquaculture practices before and during harvest. Aquaculture, 2018, 495, 903-911.	1.7	75
27	Effects of coeliacomesenteric blood flow reduction on intestinal barrier function in rainbow trout <i>Oncorhynchus mykiss</i>. Journal of Fish Biology, 2018, 93, 519-527.	0.7	7
28	Structural and functional maturation of skin during metamorphosis in the Atlantic halibut (Hippoglossus hippoglossus). Cell and Tissue Research, 2018, 372, 469-492.	1.5	1
29	Aeromonas salmonicida Growth in Response to Atlantic Salmon Mucins Differs between Epithelial Sites, Is Governed by Sialylated and <i>N</i> -Acetylhexosamine-Containing <i>O</i> -Glycans, and Is Affected by Ca ²⁺. Infection and Immunity, 2017, 85, .	1.0	22
30	Increased mitochondrial coupling and anaerobic capacity minimizes aerobic costs of trout in the sea. Scientific Reports, 2017, 7, 45778.	1.6	22
31	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.	1.0	8
32	Comparative survival and growth performance of European lobster larvae, <i>Homarus gammarus</i>, reared on dry feed and conspecifics. Aquaculture Research, 2017, 48, 5300-5310.	0.9	17
33	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.	0.7	64
34	Analysis of aquaporins from the euryhaline barnacle Balanus improvisus reveals differential expression in response to changes in salinity. PLoS ONE, 2017, 12, e0181192.	1.1	27
35	Evaluation of growth performance and intestinal barrier function in Arctic Charr (<i>Salvelinus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 mussel (<i>Mytilus edulis</i>). Aquaculture Nutrition, 2016, 22, 1348-1360.	1.1	41
36	Population-dependent effects of ocean acidification. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160163.	1.2	11

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37	Cells to shells: The genomics of mollusc exoskeletons. Marine Genomics, 2016, 27, 1-2.	0.4	1
38	Stunning fish with CO2 or electricity: contradictory results on behavioural and physiological stress responses. Animal, 2016, 10, 294-301.	1.3	23
39	Calcium mobilisation following shell damage in the Pacific oyster, Crassostrea gigas. Marine Genomics, 2016, 27, 75-83.	0.4	28
40	Atlantic Salmon Carries a Range of Novel <i>O</i>-Glycan Structures Differentially Localized on Skin and Intestinal Mucins. Journal of Proteome Research, 2015, 14, 3239-3251.	1.8	52
41	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.	0.7	94
42	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 GrÃns et al.â€™. Journal of Experimental Biology, 2014, 217, 4433-4435.	0.8	31
43	Development of intestinal ionâ€transporting mechanisms during smoltification and seawater acclimation in Atlantic salmon <i>Salmo salar</i>. Journal of Fish Biology, 2014, 85, 1227-1252.	0.7	42
44	Plasma growth hormoneâ€binding protein levels in Atlantic salmon <i>Salmo salar</i> during smoltification and seawater transfer. Journal of Fish Biology, 2014, 85, 1279-1296.	0.7	12
45	Aeromonas salmonicida Binds Differentially to Mucins Isolated from Skin and Intestinal Regions of Atlantic Salmon in an <i>N</i> -Acetylneuraminic Acid-Dependent Manner. Infection and Immunity, 2014, 82, 5235-5245.	1.0	42
46	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.	0.7	20
47	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.	0.8	197
48	Effects of Cortisol on the Intestinal Mucosal Immune Response during Cohabitant Challenge with IPNV in Atlantic Salmon (Salmo salar). PLoS ONE, 2014, 9, e94288.	1.1	23
49	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.	1.7	16
50	Modulation of innate immune responses in Atlantic salmon by chronic hypoxia-induced stress. Fish and Shellfish Immunology, 2013, 34, 55-65.	1.6	75
51	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.	0.8	105
52	Stress responses in Arctic char (Salvelinus alpinus L.) during hyperoxic carbon dioxide immobilization relevant to aquaculture. Aquaculture, 2013, 414-415, 254-259.	1.7	14
53	Antimicrobial Peptides (AMPs) from Fish Epidermis: Perspectives for Investigative Dermatology. Journal of Investigative Dermatology, 2013, 133, 1140-1149.	0.3	111
54	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.	1.1	31

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55	Intestinal fluid absorption in anadromous salmonids: importance of tight junctions and aquaporins. Frontiers in Physiology, 2012, 3, 388.	1.3	99
56	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.	1.7	14
57	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.	1.6	43
58	Health of farmed fish: its relation to fish welfare and its utility as welfare indicator. Fish Physiology and Biochemistry, 2012, 38, 85-105.	0.9	172
59	Translocation of infectious pancreatic necrosis virus across the intestinal epithelium of Atlantic salmon (Salmo salar L.). Aquaculture, 2011, 321, 85-92.	1.7	40
60	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.	1.6	116
61	Health of farmed fish: its relation to fish welfare and its utility as welfare indicator. , 2011, , 85-105.		0
62	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
63	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.	0.8	24
64	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.. Journal of Fish Diseases, 2009, 32, 687-698.	0.9	38
65	The involvement of <i>Aeromonas salmonicida</i> virulence factors in bacterial translocation across the rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum), intestine. Journal of Fish Diseases, 2008, 31, 141-151.	0.9	46
66	The acute stress response in fed and food deprived Atlantic cod, Gadus morhua L.. Aquaculture, 2008, 280, 232-241.	1.7	70
67	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.). British Journal of Nutrition, 2008, 100, 120-129.	1.2	188
68	Non-invasive measurement of cortisol and melatonin in tanks stocked with seawater Atlantic salmon. Aquaculture, 2007, 272, 698-706.	1.7	54
69	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.	1.7	68
70	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.	0.7	46
71	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.	1.7	53
72	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.	0.8	10

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73	Translocation of viable Aeromonas salmonicida across the intestine of rainbow trout, Oncorhynchus mykiss (Walbaum). Journal of Fish Diseases, 2006, 29, 255-262.	0.9	56
74	Stickleback sperm saved by salt in ovarian fluid. Journal of Experimental Biology, 2006, 209, 4230-4237.	0.8	49
75	Acute stress alters intestinal function of rainbow trout, Oncorhynchus mykiss (Walbaum). Aquaculture, 2005, 250, 480-495.	1.7	137
76	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.	1.5	107
77	Physiological characteristics of wild Atlantic salmon post-smolts during estuarine and coastal migration. Journal of Fish Biology, 2003, 63, 942-955.	0.7	40
78	Pituitary gene expression of somatolactin, prolactin, and growth hormone during Atlantic salmon parrâ€“smolt transformation. Aquaculture, 2003, 222, 229-238.	1.7	34
79	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.	1.7	114
80	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.	0.8	109
81	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.	1.4	22
82	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.	1.1	21
83	Title is missing!. Fish Physiology and Biochemistry, 2002, 26, 211-221.	0.9	72
84	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.	1.2	18
85	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.	1.2	52
86	Flounder with partial intestine osmoregulate in seawater. Fish Physiology and Biochemistry, 2000, 23, 159-164.	0.9	6
87	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.	1.8	20
88	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.	1.1	30
89	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.	1.8	2
90	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.	1.0	38

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91	Wild and hatchery-reared brown trout, Salmo trutta, differ in smolt related characteristics during parrâ€“smolt transformation. Aquaculture, 1998, 167, 53-65.	1.7	32
92	Cortisol Mediates the Increase in Intestinal Fluid Absorption in Atlantic Salmon during Parr-Smolt Transformation. General and Comparative Endocrinology, 1995, 97, 250-258.	0.8	81
93	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.	0.8	38
94	Estradiol-17Î²-induced calcium uptake and resorption in juvenile rainbow trout, Oncorhynchus mykiss. Fish Physiology and Biochemistry, 1994, 13, 379-386.	0.9	46
95	Cortisol stimulates intestinal fluid uptake in Atlantic salmon (Salmo salar) in the post-smolt stage. Fish Physiology and Biochemistry, 1994, 13, 183-190.	0.9	22
96	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.	0.8	44
97	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.	0.7	82
98	Species differences in cerebral taurine concentrations correlate with brain water content. Brain Research, 1991, 548, 267-272.	1.1	16
99	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.	0.8	44
100	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. Journal of Experimental Biology, 1988, 140, 171-186.	0.8	41
101	Adaptability of two phenotypes of Littorina saxatilis (Olivi) to different salinities. Journal of Experimental Marine Biology and Ecology, 1985, 92, 115-123.	0.7	7