Magnus Lucassen

List of Publications by Year
in descending order

64	2,952	218381	168136
papers	citations	26 h-index	53 g-index

70	70	70	3470
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physiological basis for high CO₂ tolerance in marine ectothermic animals: pre-adaptation through lifestyle and ontogeny?. Biogeosciences, 2009, 6, 2313-2331.	1.3	544
2	Tradeâ€Offs in Thermal Adaptation: The Need for a Molecular to Ecological Integration. Physiological and Biochemical Zoology, 2006, 79, 295-313.	0.6	324
3	Swimming performance in Atlantic Cod (Gadus morhua) following long-term (4â€“12 months) acclimation to elevated seawater PCO2. Aquatic Toxicology, 2009, 92, 30-37.	1.9	136
4	Impacts of seawater acidification on mantle gene expression patterns of the Baltic Sea blue mussel: implications for shell formation and energy metabolism. Marine Biology, 2013, 160, 1845-1861.	0.7	134
5	Regulation of RssB-dependent proteolysis inEscherichia coli: a role for acetyl phosphate in a response regulator-controlled process. Molecular Microbiology, 1998, 27, 787-795.	1.2	123
6	Cod and climate in a latitudinal cline: physiological analyses of climate effects in marine fishes. Climate Research, 2008, 37, 253-270.	0.4	120
7	Mitochondrial mechanisms of cold adaptation in cod (Gadus morhuaL.) populations from different climatic zones. Journal of Experimental Biology, 2006, 209, 2462-2471.	0.8	110
8	Acclimation of ion regulatory capacities in gills of marine fish under environmental hypercapnia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R1660-R1670.	0.9	93
9	Exploring Uncoupling Proteins and Antioxidant Mechanisms under Acute Cold Exposure in Brains of Fish. PLoS ONE, 2011, 6, e18180.	1.1	91
10	Stress response or beneficial temperature acclimation: transcriptomic signatures in <scp>A</scp>ntarctic fish (<scp>P</scp>achycara brachycephalum). Molecular Ecology, 2014, 23, 3469-3482.	2.0	72
11	Thermal acclimation in Antarctic fish: transcriptomic profiling of metabolic pathways. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1453-R1466.	0.9	70
12	Gene expression profiling in gills of the great spider crab Hyas araneus in response to ocean acidification and warming. BMC Genomics, 2014, 15, 789.	1.2	70
13	Elevated seawater Pco2 differentially affects branchial acid-base transporters over the course of development in the cephalopod Sepia officinalis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R1100-R1114.	0.9	67
14	Oxidative stress and HIF-1 DNA binding during stressful cold exposure and recovery in the North Sea eelpout (Zoarces viviparus). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2006, 143, 494-503.	0.8	58
15	Mitochondrial proliferation in the permanent vs. temporary cold: enzyme activities and mRNA levels in Antarctic and temperate zoarcid fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 285, R1410-R1420.	0.9	56
16	Hypercapnia induced shifts in gill energy budgets of Antarctic notothenioids. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 347-359.	0.7	50
17	Lake Baikal amphipods under climate change: thermalÂconstraintsÂand ecological consequences. Ecosphere, 2016, 7, e01308.	1.0	49
18	A shell regeneration assay to identify biomineralization candidate genes in mytilid mussels. Marine Genomics, 2016, 27, 57-67.	0.4	46

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19	Metabolic response and thermal tolerance of green abalone juveniles (Haliotis fulgens: Gastropoda) under acute hypoxia and hypercapnia. Journal of Experimental Marine Biology and Ecology, 2017, 497, 11-18.	0.7	40
20	Characterization of Truncated Forms of the KdpD Protein, the Sensor Kinase of the K+-translocating Kdp System of Escherichia coli. Journal of Biological Chemistry, 1996, 271, 25027-25034.	1.6	37
21	Thermal sensitivity of uncoupling protein expression in polar and temperate fish. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2006, 1, 365-374.	0.4	34
22	Localization of ion-regulatory epithelia in embryos and hatchlings of two cephalopods. Cell and Tissue Research, 2010, 339, 571-583.	1.5	32
23	Thermal Preference Ranges Correlate with Stable Signals of Universal Stress Markers in Lake Baikal Endemic and Holarctic Amphipods. PLoS ONE, 2016, 11, e0164226.	1.1	30
24	Mitochondrial Function in Antarctic Nototheniids with ND6 Translocation. PLoS ONE, 2012, 7, e31860.	1.1	30
25	From critters to cancers: bridging comparative and clinical research on oxygen sensing, HIF signaling, and adaptations towards hypoxia. Integrative and Comparative Biology, 2007, 47, 552-577.	0.9	28
26	Temperature tolerance of different larval stages of the spider crab Hyas araneus exposed to elevated seawater PCO2. Frontiers in Zoology, 2014, 11, 87.	0.9	28
27	A first Glimpse at the genome of the Baikalian amphipod Eulimnogammarus verrucosus. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2014, 322, 177-189.	0.6	27
28	Adjustments of molecular key components of branchial ion and pH regulation in Atlantic cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Biochemistry and Molecular Biology, 2016, 193, 33-46.	0.7	26
29	Draft genome assembly and transcriptome data of the icefish Chionodraco myersi reveal the key role of mitochondria for a life without hemoglobin at subzero temperatures. Communications Biology, 2019, 2, 443.	2.0	26
30	Fish embryo vulnerability to combined acidification and warming coincides with low capacity for homeostatic regulation. Journal of Experimental Biology, 2020, 223, .	0.8	26
31	Dimerization of signalling modules of the EvgAS and BvgAS phosphorelay systems. BBA - Proteins and Proteomics, 2000, 1478, 341-354.	2.1	25
32	Tolerance of Hyas araneus zoea I larvae to elevated seawater PCO2 despite elevated metabolic costs. Marine Biology, 2013, 160, 1943-1953.	0.7	23
33	Influence of Temperature, Hypercapnia, and Development on the Relative Expression of Different Hemocyanin Isoforms in the Common Cuttlefish Sepia officinalis. Journal of Experimental Zoology, 2012, 317, 511-523.	1.2	21
34	Assessment of muscular energy metabolism and heat shock response of the green abalone Haliotis fulgens (Gastropoda: Philipi) at extreme temperatures combined with acute hypoxia and hypercapnia. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2019, 227, 1-11.	0.7	19
35	Not Frozen in the Ice: Large and Dynamic Rearrangements in the Mitochondrial Genomes of the Antarctic Fish. Genome Biology and Evolution, 2021, 13, .	1.1	19
36	Evolutionary force in confamiliar marine vertebrates of different temperature realms: adaptive trends in zoarcid fish transcriptomes. BMC Genomics, 2012, 13, 549.	1.2	17

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37	Comparison between transcriptomic responses to short-term stress exposures of a common Holarctic and endemic Lake Baikal amphipods. BMC Genomics, 2019, 20, 712.	1.2	17
38	Impact of long-term moderate hypercapnia and elevated temperature on the energy budget of isolated gills of Atlantic cod (Gadus morhua). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 182, 102-112.	0.8	16
39	Molecular characterisation and expression of Atlantic cod (Gadus morhua) myoglobin from two populations held at two different acclimation temperatures. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 148, 681-689.	0.8	15
40	De novo transcriptome assembly and gene expression profile of thermally challenged green abalone (Haliotis fulgens: Gastropoda) under acute hypoxia and hypercapnia. Marine Genomics, 2019, 45, 48-56.	0.4	15
41	Differential expression of duplicated LDH-A genes during temperature acclimation of weatherfish Misgurnus fossilis. FEBS Journal, 2007, 274, 1503-1513.	2.2	14
42	Characterization and analysis of a transcriptome from the boreal spider crab Hyas araneus. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2013, 8, 344-351.	0.4	14
43	A first insight into the spleen transcriptome of the notothenioid fish Lepidonotothen nudifrons: Resource description and functional overview. Marine Genomics, 2015, 24, 237-239.	0.4	14
44	Non-Antarctic notothenioids: Past phylogenetic history and contemporary phylogeographic implications in the face of environmental changes. Marine Genomics, 2016, 25, 1-9.	0.4	13
45	Microscale genetic differentiation along the vertical shore gradient in White Sea snails Littorina saxatilis (Olivi) assessed by microsatellite markers. Journal of Molluscan Studies, 2003, 69, 388-391.	0.4	11
46	Cold induced changes of adenosine levels in common eelpout (Zoarces viviparus): a role in modulating cytochromecoxidase expression. Journal of Experimental Biology, 2008, 211, 1262-1269.	0.8	11
47	Genetic variability of the striped venus Chamelea gallina in the northern Adriatic Sea. Fisheries Research, 2018, 201, 68-78.	0.9	11
48	Different ways to play it cool: Transcriptomic analysis sheds light on different activity patterns of three amphipod species under longâ€term cold exposure. Molecular Ecology, 2021, 30, 5735-5751.	2.0	11
49	Microsatellite DNA variation indicates low levels of genetic differentiation among cuttlefish (Sepia) Tj ETQq1 1 0.784314 rgBT /Overlo Physiology Part D: Genomics and Proteomics, 2006, 1, 375-383.	0.4	10
50	Physiological capacity of Cancer setosus larvae â€" Adaptation to El NiÃ±o Southern Oscillation conditions. Journal of Experimental Marine Biology and Ecology, 2012, 413, 100-105.	0.7	10
51	Temperature Modulates the Effects of Ocean Acidification on Intestinal Ion Transport in Atlantic Cod, Gadus morhua. Frontiers in Physiology, 2016, 7, 198.	1.3	10
52	Species distribution, hybridization and connectivity in the genus Chionodraco: Unveiling unknown icefish diversity in antarctica. Diversity and Distributions, 2021, 27, 766-783.	1.9	10
53	Microsatellite markers for the notothenioid fish Lepidonotothen nudifrons and two congeneric species. BMC Research Notes, 2016, 9, 238.	0.6	8
54	Thermal reaction norms of key metabolic enzymes reflect divergent physiological and behavioral adaptations of closely related amphipod species. Scientific Reports, 2021, 11, 4562.	1.6	7

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55	Differential gene expression patterns related to lipid metabolism in response to ocean acidification in larvae and juveniles of Atlantic cod. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 247, 110740.	0.8	7
56	Response of branchial Na+/K+ ATPase to changes in ambient temperature in Atlantic cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 Systemic, and Environmental Physiology, 2016, 186, 461-470.	0.7	6
57	High gene flow in polar cod (<scp>Boreogadus saida</scp>) from <scp>Westâ€Svalbard</scp> and the Eurasian Basin. Journal of Fish Biology, 2021, 99, 49-60.	0.7	5
58	Low annual temperature likely prevents the Holarctic amphipod Gammarus lacustris from invading Lake Baikal. Scientific Reports, 2021, 11, 10532.	1.6	5
59	Sequence and structure comparison of ATP synthase F0 subunits 6 and 8 in notothenioid fish. PLoS ONE, 2021, 16, e0245822.	1.1	4
60	Integrated studies of organismal plasticity through physiological and transcriptomic approaches: examples from marine polar regions. Briefings in Functional Genomics, 2016, 15, 365-372.	1.3	3
61	Transcriptome-level effects of the model organic pollutant phenanthrene and its solvent acetone in three amphipod species. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2020, 33, 100630.	0.4	2
62	Antarctic sea ice: Habitat characteristics, metazoen fauna, and adaptations to low temperature. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, S154.	0.8	0
63	Adaptation of ion regulatory capacities in gills of cold and warm water fish under hypercapnic acidosis. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, S212.	0.8	0
64	Synergistic interactions of environmental stressors: Dilemma or benefit?. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, S156.	0.8	0