Jon Olav Vik

List of Publications by Year in descending order

42 papers	6,267 citations	304743 22 h-index	254184 43 g-index
51 all docs	51 docs citations	51 times ranked	9689 citing authors

#	Article	IF	Citations
1	SALARECON connects the Atlantic salmon genome to growth and feed efficiency. PLoS Computational Biology, 2022, 18, e1010194.	3.2	4
2	Diet and Life Stage-Associated Lipidome Remodeling in Atlantic Salmon. Journal of Agricultural and Food Chemistry, 2021, 69, 3787-3796.	5.2	5
3	Targeted mutagenesis of âˆ†5 and âˆ†6 fatty acyl desaturases induce dysregulation of lipid metabolism in Atlantic salmon (Salmo salar). BMC Genomics, 2020, 21, 805.	2.8	8
4	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314
5	Replacing soybean meal with rapeseed meal and faba beans in a growing-finishing pig diet: Effect on growth performance, meat quality and metabolite changes. Meat Science, 2020, 166, 108134.	5.5	21
6	Comparative transcriptomics reveals domesticationâ€associated features of Atlantic salmon lipid metabolism. Molecular Ecology, 2020, 29, 1860-1872.	3.9	14
7	CRISPR/Cas9-mediated ablation of elovl2 in Atlantic salmon (Salmo salar L.) inhibits elongation of polyunsaturated fatty acids and induces Srebp-1 and target genes. Scientific Reports, 2019, 9, 7533.	3.3	60
8	Transcriptional regulation of lipid metabolism when salmon fry switches from endogenous to exogenous feeding. Aquaculture, 2019, 503, 422-429.	3.5	4
9	Liver slice culture as a model for lipid metabolism in fish. PeerJ, 2019, 7, e7732.	2.0	8
10	Lifeâ€stageâ€associated remodelling of lipid metabolism regulation in Atlantic salmon. Molecular Ecology, 2018, 27, 1200-1213.	3.9	35
11	Transcriptional development of phospholipid and lipoprotein metabolism in different intestinal regions of Atlantic salmon (Salmo salar) fry. BMC Genomics, 2018, 19, 253.	2.8	14
12	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. BMC Genomics, 2017, 18, 484.	2.8	99
13	The Atlantic salmon genome provides insights into rediploidization. Nature, 2016, 533, 200-205.	27.8	1,021
14	Towards causally cohesive genotypeâ€“phenotype modelling for characterization of the soft-tissue mechanics of the heart in normal and pathological geometries. Journal of the Royal Society Interface, 2015, 12, 20141166.	3.4	2
15	A call for virtual experiments: Accelerating the scientific process. Progress in Biophysics and Molecular Biology, 2015, 117, 99-106.	2.9	31
16	A computational pipeline for quantification of mouse myocardial stiffness parameters. Computers in Biology and Medicine, 2014, 53, 65-75.	7.0	13
17	Bridging the genotypeâ€“phenotype gap: what does it take?. Journal of Physiology, 2013, 591, 2055-2066.	2.9	62
18	Hierarchical multivariate regression-based sensitivity analysis reveals complex parameter interaction patterns in dynamic models. Chemometrics and Intelligent Laboratory Systems, 2013, 120, 25-41.	3.5	16

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19	Effect of Regulatory Architecture on Broad versus Narrow Sense Heritability. PLoS Computational Biology, 2013, 9, e1003053.	3.2	6
20	PLS-Based Multivariate Metamodeling of Dynamic Systems. Springer Proceedings in Mathematics and Statistics, 2013, , 3-30.	0.2	7
21	Parameters in Dynamic Models of Complex Traits are Containers of Missing Heritability. PLoS Computational Biology, 2012, 8, e1002459.	3.2	24
22	Genotype-phenotype map characteristics of an in silico heart cell. Frontiers in Physiology, 2011, 2, 106.	2.8	16
23	Order-preserving principles underlying genotype-phenotype maps ensure high additive proportions of genetic variance. Journal of Evolutionary Biology, 2011, 24, 2269-2279.	1.7	26
24	Hierarchical Cluster-based Partial Least Squares Regression (HC-PLSR) is an efficient tool for metamodelling of nonlinear dynamic models. BMC Systems Biology, 2011, 5, 90.	3.0	48
25	Relaxation oscillations in spruceâ€“budworm interactions. Nonlinear Analysis: Real World Applications, 2011, 12, 304-319.	1.7	27
26	Temporal scales, tradeâ€offs, and functional responses in red deer habitat selection. Ecology, 2009, 90, 699-710.	3.2	279
27	Effects of acorn abundance on density dependence in a Japanese wood mouse (<i>Apodemus) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.2	18
28	Interlinking hare and lynx dynamics using a century's worth of annual data. Population Ecology, 2008, 50, 267-274.	1.2	21
29	Wavelet analysis of ecological time series. Oecologia, 2008, 156, 287-304.	2.0	552
30	Linking climate change to lemming cycles. Nature, 2008, 456, 93-97.	27.8	377
31	Mushroom fruiting and climate change. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3811-3814.	7.1	166
32	Response to Comment on "Rapid Advance of Spring Arrival Dates in Long-Distance Migratory Birds". Science, 2007, 315, 598c-598c.	12.6	24
33	The inf luence of advection on Calanus near Svalbard: statistical relations between salinity, temperature and copepod abundance. Journal of Plankton Research, 2007, 29, 903-911.	1.8	38
34	The arctic fox Alopex lagopus in Fennoscandia: a victim of human-induced changes in interspecific competition and predation?. Biodiversity and Conservation, 2007, 16, 3575-3583.	2.6	22
35	Effects of acorn masting on population dynamics of three forest-dwelling rodent species in Hokkaido, Japan. Population Ecology, 2007, 49, 249-256.	1.2	20
36	Characterizing bird migration phenology using data from standardized monitoring at bird observatories. Climate Research, 2007, 35, 59-77.	1.1	59

#	Article	IF	Citations
37	Rapid Advance of Spring Arrival Dates in Long-Distance Migratory Birds. Science, 2006, 312, 1959-1961.	12.6	399
38	Effects of regime shifts on the population dynamics of the grey-sided vole in Hokkaido, Japan. Climate Research, 2006, 32, 109-118.	1.1	27
39	Using the satellite-derived NDVI to assess ecological responses to environmental change. Trends in Ecology and Evolution, 2005, 20, 503-510.	8.7	2,279
40	Living in synchrony on Greenland coasts?. Nature, 2004, 427, 697-698.	27.8	7
41	Cannibalism governing mortality of juvenile brown trout,Salmo trutta, in a regulated stream. River Research and Applications, 2001, 17, 583-594.	0.8	28
42	Cannibalism governing mortality of juvenile brown trout, Salmo trutta, in a regulated stream. River Research and Applications, 2001, 17, 583-594.	0.8	3