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	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
2	The Atlantic salmon genome provides insights into rediploidization. Nature, 2016, 533, 200-205.	27.8	1,021
3	Wavelet analysis of ecological time series. Oecologia, 2008, 156, 287-304.	2.0	552
4	Rapid Advance of Spring Arrival Dates in Long-Distance Migratory Birds. Science, 2006, 312, 1959-1961.	12.6	399
5	Linking climate change to lemming cycles. Nature, 2008, 456, 93-97.	27.8	377
6	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314
7	Temporal scales, tradeâ€offs, and functional responses in red deer habitat selection. Ecology, 2009, 90, 699-710.	3.2	279
8	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
9	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
10	Bridging the genotypeâ€“phenotype gap: what does it take?. Journal of Physiology, 2013, 591, 2055-2066.	2.9	62
11	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
12	Characterizing bird migration phenology using data from standardized monitoring at bird observatories. Climate Research, 2007, 35, 59-77.	1.1	59
13	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
14	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
15	Lifeâ€stageâ€associated remodelling of lipid metabolism regulation in Atlantic salmon. Molecular Ecology, 2018, 27, 1200-1213.	3.9	35
16	A call for virtual experiments: Accelerating the scientific process. Progress in Biophysics and Molecular Biology, 2015, 117, 99-106.	2.9	31
17	Cannibalism governing mortality of juvenile brown trout,Salmo trutta, in a regulated stream. River Research and Applications, 2001, 17, 583-594.	0.8	28
18	Relaxation oscillations in spruceâ€“budworm interactions. Nonlinear Analysis: Real World Applications, 2011, 12, 304-319.	1.7	27

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19	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
20	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
21	Response to Comment on "Rapid Advance of Spring Arrival Dates in Long-Distance Migratory Birds". Science, 2007, 315, 598c-598c.	12.6	24
22	Parameters in Dynamic Models of Complex Traits are Containers of Missing Heritability. PLoS Computational Biology, 2012, 8, e1002459.	3.2	24
23	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
24	Interlinking hare and lynx dynamics using a century's worth of annual data. Population Ecology, 2008, 50, 267-274.	1.2	21
25	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
26	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
27	Effects of acorn abundance on density dependence in a Japanese wood mouse (<i>Apodemus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.2	18
28	Genotype-phenotype map characteristics of an in silico heart cell. Frontiers in Physiology, 2011, 2, 106.	2.8	16
29	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
30	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
31	Comparative transcriptomics reveals domesticationâ€associated features of Atlantic salmon lipid metabolism. Molecular Ecology, 2020, 29, 1860-1872.	3.9	14
32	A computational pipeline for quantification of mouse myocardial stiffness parameters. Computers in Biology and Medicine, 2014, 53, 65-75.	7.0	13
33	Targeted mutagenesis of â^†5 and â^†6 fatty acyl desaturases induce dysregulation of lipid metabolism in Atlantic salmon (Salmo salar). BMC Genomics, 2020, 21, 805.	2.8	8
34	Liver slice culture as a model for lipid metabolism in fish. PeerJ, 2019, 7, e7732.	2.0	8
35	Living in synchrony on Greenland coasts?. Nature, 2004, 427, 697-698.	27.8	7
36	PLS-Based Multivariate Metamodeling of Dynamic Systems. Springer Proceedings in Mathematics and Statistics, 2013, , 3-30.	0.2	7

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37	Effect of Regulatory Architecture on Broad versus Narrow Sense Heritability. PLoS Computational Biology, 2013, 9, e1003053.	3.2	6
38	Diet and Life Stage-Associated Lipidome Remodeling in Atlantic Salmon. Journal of Agricultural and Food Chemistry, 2021, 69, 3787-3796.	5.2	5
39	Transcriptional regulation of lipid metabolism when salmon fry switches from endogenous to exogenous feeding. Aquaculture, 2019, 503, 422-429.	3.5	4
40	SALARECON connects the Atlantic salmon genome to growth and feed efficiency. PLoS Computational Biology, 2022, 18, e1010194.	3.2	4
41	Cannibalism governing mortality of juvenile brown trout, Salmo trutta, in a regulated stream. River Research and Applications, 2001, 17, 583-594.	0.8	3
42	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