

Marjo Saastamoinen

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

3,867
citations

218662

26
h-index

138468

58
g-index

80
all docs

80
docs citations

80
times ranked

4533
citing authors

#	ARTICLE	IF	CITATIONS
1	Costs of dispersal. <i>Biological Reviews</i> , 2012, 87, 290-312.	10.4	996
2	Dispersal and species' responses to climate change. <i>Oikos</i> , 2013, 122, 1532-1540.	2.7	318
3	Dispersal-related life-history trade-offs in a butterfly metapopulation. <i>Journal of Animal Ecology</i> , 2006, 75, 91-100.	2.8	204
4	A candidate locus for variation in dispersal rate in a butterfly metapopulation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2449-2456.	2.6	198
5	Genetics of dispersal. <i>Biological Reviews</i> , 2018, 93, 574-599.	10.4	182
6	Strong phenotypic plasticity limits potential for evolutionary responses to climate change. <i>Nature Communications</i> , 2018, 9, 1005.	12.8	137
7	Global gene flow releases invasive plants from environmental constraints on genetic diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4218-4227.	7.1	108
8	Cracking the olfactory code of a butterfly: the scent of ageing. <i>Ecology Letters</i> , 2012, 15, 415-424.	6.4	85
9	Predictive Adaptive Responses: Condition-Dependent Impact of Adult Nutrition and Flight in the Tropical Butterfly <i>Bicyclus anynana</i> . <i>American Naturalist</i> , 2010, 176, 686-698.	2.1	84
10	Genotypic and Environmental Effects on Flight Activity and Oviposition in the Glanville Fritillary Butterfly. <i>American Naturalist</i> , 2008, 171, 701-712.	2.1	82
11	Metapopulation dynamics in a changing climate: Increasing spatial synchrony in weather conditions drives metapopulation synchrony of a butterfly inhabiting a fragmented landscape. <i>Global Change Biology</i> , 2018, 24, 4316-4329.	9.5	70
12	Life-history, genotypic, and environmental correlates of clutch size in the Glanville fritillary butterfly. <i>Ecological Entomology</i> , 2007, 32, 235-242.	2.2	67
13	Direct and trans-generational responses to food deprivation during development in the Glanville fritillary butterfly. <i>Oecologia</i> , 2013, 171, 93-104.	2.0	64
14	Heritability of dispersal rate and other life history traits in the Glanville fritillary butterfly. <i>Heredity</i> , 2008, 100, 39-46.	2.6	57
15	Shifts in timing and duration of breeding for 73 boreal bird species over four decades. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18557-18565.	7.1	57
16	Mobility and lifetime fecundity in new versus old populations of the Glanville fritillary butterfly. <i>Oecologia</i> , 2007, 153, 569-578.	2.0	55
17	Significant effects of <i>Pgi</i> genotype and body reserves on lifespan in the Glanville fritillary butterfly. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1313-1322.	2.6	55
18	A high-coverage draft genome of the mycalesine butterfly <i>Bicyclus anynana</i> . <i>GigaScience</i> , 2017, 6, 1-7.	6.4	55

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19	Temperature treatments during larval development reveal extensive heritable and plastic variation in gene expression and life history traits. <i>Molecular Ecology</i> , 2013, 22, 602-619.	3.9	50
20	Climate change reshuffles northern species within their niches. <i>Nature Climate Change</i> , 2022, 12, 587-592.	18.8	46
21	The Predictive Adaptive Response: Modeling the Life-History Evolution of the Butterfly <i>Bicyclus anynana</i> in Seasonal Environments. <i>American Naturalist</i> , 2013, 181, E28-E42.	2.1	45
22	Plastic larval development in a butterfly has complex environmental and genetic causes and consequences for population dynamics. <i>Journal of Animal Ecology</i> , 2013, 82, 529-539.	2.8	43
23	Combining range and phenology shifts offers a winning strategy for boreal Lepidoptera. <i>Ecology Letters</i> , 2021, 24, 1619-1632.	6.4	36
24	Weight and nutrition affect pre-mRNA splicing of a muscle gene associated with performance, energetics and life history. <i>Journal of Experimental Biology</i> , 2008, 211, 3653-3660.	1.7	35
25	The importance of trans-generational effects in Lepidoptera. <i>Environmental Epigenetics</i> , 2016, 62, 489-499.	1.8	33
26	Developmental stage-dependent response and preference for host plant quality in an insect herbivore. <i>Animal Behaviour</i> , 2019, 150, 27-38.	1.9	32
27	The effect of summer drought on the predictability of local extinctions in a butterfly metapopulation. <i>Conservation Biology</i> , 2020, 34, 1503-1511.	4.7	31
28	Can we predict the expansion rate of a translocated butterfly population based on a priori estimated movement rates?. <i>Biological Conservation</i> , 2017, 215, 189-195.	4.1	29
29	Inferring dispersal across a fragmented landscape using reconstructed families in the Glanville fritillary butterfly. <i>Evolutionary Applications</i> , 2018, 11, 287-297.	3.1	29
30	Multidimensional plasticity in the Glanville fritillary butterfly: larval performance is temperature, host and family specific. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202577.	2.6	28
31	Frontiers in Metapopulation Biology: The Legacy of Ilkka Hanski. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2018, 49, 231-252.	8.3	27
32	Ocean acidification and responses to predators: can sensory redundancy reduce the apparent impacts of elevated CO_2 on fish?. <i>Ecology and Evolution</i> , 2013, 3, 3565-3575.	1.9	26
33	A plant pathogen modulates the effects of secondary metabolites on the performance and immune function of an insect herbivore. <i>Oikos</i> , 2018, 127, 1539-1549.	2.7	26
34	Organisms on the move: ecology and evolution of dispersal. <i>Biology Letters</i> , 2010, 6, 146-148.	2.3	25
35	Sex-dependent effects of larval food stress on adult performance under semi-natural conditions: only a matter of size?. <i>Oecologia</i> , 2017, 184, 633-642.	2.0	25
36	Narrow oviposition preference of an insect herbivore risks survival under conditions of severe drought. <i>Functional Ecology</i> , 2020, 34, 1358-1369.	3.6	25

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37	Influence of Developmental Conditions on Immune Function and Dispersal-Related Traits in the Glanville Fritillary (<i>Melitaea cinxia</i>) Butterfly. PLoS ONE, 2013, 8, e81289.	2.5	24
38	AGE-DEPENDENT SURVIVAL ANALYZED WITH BAYESIAN MODELS OF MARK-RECAPTURE DATA. Ecology, 2007, 88, 1970-1976.	3.2	21
39	A Candidate Gene in an Ecological Model Species: Phosphoglucose Isomerase (<i>Pgi</i>) in the Glanville Fritillary Butterfly (<i>Melitaea cinxia</i>). Annales Zoologici Fennici, 2017, 54, 259-273.	0.6	21
40	Silk properties and overwinter survival in gregarious butterfly larvae. Ecology and Evolution, 2018, 8, 12443-12455.	1.9	21
41	The microbiome of the <i>Melitaea cinxia</i> butterfly shows marked variation but is only little explained by the traits of the butterfly or its host plant. Environmental Microbiology, 2019, 21, 4253-4269.	3.8	21
42	Quantitative genetic analysis of responses to larval food limitation in a polyphenic butterfly indicates environmental and trait-specific effects. Ecology and Evolution, 2013, 3, 3576-3589.	1.9	19
43	Long-term demographic surveys reveal a consistent relationship between average occupancy and abundance within local populations of a butterfly metapopulation. Ecography, 2020, 43, 306-317.	4.5	19
44	Microclimatic variability buffers butterfly populations against increased mortality caused by phenological asynchrony between larvae and their host plants. Oikos, 2021, 130, 753-765.	2.7	18
45	Environmentally induced dispersal-related life-history syndrome in the tropical butterfly, <i>Bicyclus anynana</i> . Journal of Evolutionary Biology, 2012, 25, 2264-2275.	1.7	17
46	Landscape permeability and individual variation in a dispersal-linked gene jointly determine genetic structure in the Glanville fritillary butterfly. Evolution Letters, 2018, 2, 544-556.	3.3	17
47	Moderate plant water stress improves larval development, and impacts immunity and gut microbiota of a specialist herbivore. PLoS ONE, 2019, 14, e0204292.	2.5	17
48	Dispersal syndromes in butterflies and spiders. , 2012, , 161-170.		17
49	The relative importance of local and regional processes to metapopulation dynamics. Journal of Animal Ecology, 2020, 89, 884-896.	2.8	16
50	Temperature- and sex-related effects of serine protease alleles on larval development in the Glanville fritillary butterfly. Journal of Evolutionary Biology, 2015, 28, 2224-2235.	1.7	14
51	Fight or flight? Flight increases immune gene expression but does not help to fight an infection. Journal of Evolutionary Biology, 2017, 30, 501-511.	1.7	14
52	Environmental and genetic control of cold tolerance in the Glanville fritillary butterfly. Journal of Evolutionary Biology, 2018, 31, 636-645.	1.7	14
53	The gut bacterial community affects immunity but not metabolism in a specialist herbivorous butterfly. Ecology and Evolution, 2020, 10, 8755-8769.	1.9	14
54	Impact of male condition on his spermatophore and consequences for female reproductive performance in the Glanville fritillary butterfly. Insect Science, 2018, 25, 284-296.	3.0	13

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55	Host-plant availability drives the spatiotemporal dynamics of interacting metapopulations across a fragmented landscape. <i>Ecology</i> , 2020, 101, e03186.	3.2	11
56	The more the merrier: Conspecific density improves performance of gregarious larvae and reduces susceptibility to a pupal parasitoid. <i>Ecology and Evolution</i> , 2017, 7, 10710-10720.	1.9	9
57	Improved chromosome-level genome assembly of the Glanville fritillary butterfly (<i>Melitaea cinxia</i>). <i>Genome Biology and Evolution</i> , 2017, 9, 11, .	6.4	8
58	The effects of protected areas on the ecological niches of birds and mammals. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
59	Beyond thermal melanism: association of wing melanization with fitness and flight behaviour in a butterfly. <i>Animal Behaviour</i> , 2020, 167, 275-288.	1.9	7
60	Evolutionary and ecological processes influencing chemical defense variation in an aposematic and mimetic <i>Heliconius</i> butterfly. <i>PeerJ</i> , 2021, 9, e11523.	2.0	7
61	Effects of environment and genotype on dispersal differ across departure, transfer and settlement in a butterfly metapopulation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, .	2.6	6
62	Alternative developmental and transcriptomic responses to host plant water limitation in a butterfly metapopulation. <i>Molecular Ecology</i> , 2022, 31, 5666-5683.	3.9	5
63	Exploring the dimensions of metapopulation persistence: a comparison of structural and temporal measures. <i>Theoretical Ecology</i> , 2021, 14, 269-278.	1.0	3
64	Warm-night temperature alters paternal allocation strategy in a North temperate-zone butterfly. <i>Ecology and Evolution</i> , 2021, 11, 16514-16523.	1.9	3
65	Viral exposure effects on life-history, flight-related traits, and wing melanisation in the Glanville fritillary butterfly. <i>Journal of Insect Physiology</i> , 2018, 107, 136-143.	2.0	1
66	Condition dependence in biosynthesized chemical defenses of an aposematic and mimetic <i>Heliconius</i> butterfly. <i>Ecology and Evolution</i> , 2022, 12, .	1.9	1
67	Life history alterations upon oral and hemocoelic bacterial exposure in the butterfly <i>Melitaea cinxia</i> . <i>Ecology and Evolution</i> , 2019, 9, 10665-10680.	1.9	0