Virpi Lummaa

List of Publications by Year
in descending order

80	3,353	186265 28	155660 55
papers	citations	h-index	g-index

84	84	84	2748
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fitness benefits of prolonged post-reproductive lifespan in women. Nature, 2004, 428, 178-181.	27.8	536
2	Early development, survival and reproduction in humans. Trends in Ecology and Evolution, 2002, 17, 141-147.	8.7	259
3	Evolution of sex differences in lifespan and aging: Causes and constraints. BioEssays, 2013, 35, 717-724.	2.5	194
4	Heritability and genetic constraints of life-history trait evolution in preindustrial humans. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2838-2843.	7.1	177
5	Sons Reduced Maternal Longevity in Preindustrial Humans. Science, 2002, 296, 1085-1085.	12.6	123
6	Influence of early-life nutrition on mortality and reproductive success during a subsequent famine in a preindustrial population. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13886-13891.	7.1	115
7	Severe intergenerational reproductive conflict and the evolution of menopause. Ecology Letters, 2012, 15, 1283-1290.	6.4	100
8	Natural selection on human twinning. Nature, 1998, 394, 533-534.	27.8	95
9	The transition to modernity and chronic disease: mismatch and natural selection. Nature Reviews Genetics, 2018, 19, 419-430.	16.3	91
10	Early Developmental conditions and reproductive success in humans: Downstream effects of prenatal famine, birthweight, and timing of birth. American Journal of Human Biology, 2003, 15, 370-379.	1.6	90
11	The predictive adaptive response and metabolic syndrome: challenges for the hypothesis. Trends in Endocrinology and Metabolism, 2007, 18, 94-99.	7.1	79
12	Reproductive cessation and post-reproductive lifespan in Asian elephants and pre-industrial humans. Frontiers in Zoology, 2014, 11, 54.	2.0	74
13	Nearby grandmother enhances calf survival and reproduction in Asian elephants. Scientific Reports, 2016, 6, 27213.	3.3	67
14	Senescence and ageâ€specific tradeâ€offs between reproduction and survival in female Asian elephants. Ecology Letters, 2012, 15, 260-266.	6.4	59
15	Gender difference in benefits of twinning in pre-industrial humans: boys did not pay. Journal of Animal Ecology, 2001, 70, 739-746.	2.8	56
16	Causes and Correlates of Calf Mortality in Captive Asian Elephants (Elephas maximus). PLoS ONE, 2012, 7, e32335.	2.5	56
17	Adaptive sex ratio variation in preâ€“industrial human (Homo sapiens) populations?. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 563-568.	2.6	55
18	Producing sons reduces lifetime reproductive success of subsequent offspring in pre-industrial Finns. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 2981-2988.	2.6	51

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19	Elephants born in the high stress season have faster reproductive ageing. Scientific Reports, 2015, 5, 13946.	3.3	49
20	Are elder siblings helpers or competitors? Antagonistic fitness effects of sibling interactions in humans. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122313.	2.6	48
21	Stress and body condition are associated with climate and demography in Asian elephants. , 2015, 3, cov030.		48
22	Distinguishing between determinate and indeterminate growth in a long-lived mammal. BMC Evolutionary Biology, 2015, 15, 214.	3.2	44
23	Reproductive investment in preâ€“industrial humans: the consequences of offspring number, gender and survival. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 1977-1983.	2.6	40
24	Effects of the demographic transition on the genetic variances and covariances of human life-history traits. Evolution; International Journal of Organic Evolution, 2015, 69, 747-755.	2.3	39
25	Parasiteâ€associated mortality in a longâ€lived mammal: Variation with host age, sex, and reproduction. Ecology and Evolution, 2017, 7, 10904-10915.	1.9	38
26	Month of birth predicted reproductive success and fitness in pre-modern Canadian women. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 2355-2361.	2.6	36
27	Climatic variation and age-specific survival in Asian elephants from Myanmar. Ecology, 2013, 94, 1131-1141.	3.2	36
28	Demographic and evolutionary trends in ovarian function and aging. Human Reproduction Update, 2019, 25, 34-50.	10.8	34
29	SELECTION ON MENOPAUSE IN TWO PREMODERN HUMAN POPULATIONS: NO EVIDENCE FOR THE MOTHER HYPOTHESIS. Evolution; International Journal of Organic Evolution, 2011, 65, 476-489.	2.3	31
30	Testing storage methods of faecal samples for subsequent measurement of helminth egg numbers in the domestic horse. Veterinary Parasitology, 2016, 221, 130-133.	1.8	31
31	Food and fitness: associations between crop yields and life-history traits in a longitudinally monitored pre-industrial human population. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4165-4173.	2.6	27
32	Maternal Risk of Breeding Failure Remained Low throughout the Demographic Transitions in Fertility and Age at First Reproduction in Finland. PLoS ONE, 2012, 7, e34898.	2.5	27
33	Short-term and delayed effects of mother death on calf mortality in Asian elephants. Behavioral Ecology, 2016, 27, 166-174.	2.2	27
34	Differences in age-specific mortality between wild-caught and captive-born Asian elephants. Nature Communications, 2018, 9, 3023.	12.8	27
35	Divergent selection on, but no genetic conflict over, female and male timing and rate of reproduction in a human population. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20132002.	2.6	25
36	Reduced costs of reproduction in females mediate a shift from a male-biased to a female-biased lifespan in humans. Scientific Reports, 2016, 6, 24672.	3.3	25

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37	Long-term trends in wild-capture and population dynamics point to an uncertain future for captive elephants. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182810.	2.6	24
38	Limits to Fitness Benefits of Prolonged Post-reproductive Lifespan in Women. Current Biology, 2019, 29, 645-650.e3.	3.9	24
39	Evolutionary significance of maternal kinship in a long-lived mammal. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180067.	4.0	22
40	Investigating changes within the handling system of the largest semi-captive population of Asian elephants. PLoS ONE, 2019, 14, e0209701.	2.5	22
41	Maternal age at birth shapes offspring lifeâ€history trajectory across generations in longâ€lived Asian elephants. Journal of Animal Ecology, 2020, 89, 996-1007.	2.8	21
42	Offspring fertility and grandchild survival enhanced by maternal grandmothers in a pre-industrial human society. Scientific Reports, 2021, 11, 3652.	3.3	20
43	Early-life disease exposure and associations with adult survival, cause of death, and reproductive success in preindustrial humans. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8951-8956.	7.1	19
44	Grandmotherhood across the demographic transition. PLoS ONE, 2018, 13, e0200963.	2.5	19
45	SELECTION FOR INCREASED BROOD SIZE IN HISTORICAL HUMAN POPULATIONS. Evolution; International Journal of Organic Evolution, 2004, 58, 430-436.	2.3	17
46	The importance of the timescale of the fitness metric for estimates of selection on phenotypic traits during a period of demographic change. Ecology Letters, 2016, 19, 854-861.	6.4	17
47	Asian elephants exhibit post-reproductive lifespans. BMC Evolutionary Biology, 2019, 19, 193.	3.2	17
48	Sex differences in adult mortality rate mediated by earlyâ€life environmental conditions. Ecology Letters, 2018, 21, 235-242.	6.4	17
49	Changes in Length of Grandparenthood in Finland 1790-1959. Finnish Yearbook of Population Research, 0, 52, 3-13.	0.0	17
50	Taming age mortality in semi-captive Asian elephants. Scientific Reports, 2020, 10, 1889.	3.3	14
51	Intention to have a second child, family support and actual fertility behavior in current China: An evolutionary perspective. American Journal of Human Biology, 2022, 34, e23669.	1.6	14
52	Limited support for the X-linked grandmother hypothesis in pre-industrial Finland. Biology Letters, 2018, 14, 20170651.	2.3	12
53	Early-life environment and differences in costs of reproduction in a preindustrial human population. PLoS ONE, 2018, 13, e0207236.	2.5	11
54	Parentâ€offspring conflict over family size in current China. American Journal of Human Biology, 2017, 29, e22946.	1.6	10

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55	What have humans done for evolutionary biology? Contributions from genes to populations. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171164.	2.6	10
56	Capture from the wild has long-term costs on reproductive success in Asian elephants. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191584.	2.6	10
57	How Big Is It Really? Assessing the Efficacy of Indirect Estimates of Body Size in Asian Elephants. PLoS ONE, 2016, 11, e0150533.	2.5	10
58	Genetic Associations Between Personality Traits and Lifetime Reproductive Success in Humans. Behavior Genetics, 2016, 46, 742-753.	2.1	9
59	Faecal Glucocorticoid Metabolites and H/L Ratio Are Related Markers of Stress in Semi-Captive Asian Timber Elephants. Animals, 2020, 10, 94.	2.3	9
60	Handler familiarity helps to improve working performance during novel situations in semi-captive Asian elephants. Scientific Reports, 2021, 11, 15480.	3.3	8
61	Will granny save me? Birth status, survival, and the role of grandmothers in historical Finland. Evolution and Human Behavior, 2021, 42, 239-246.	2.2	7
62	SEX DIFFERENCES IN THE REFERENCE INTERVALS OF HEALTH PARAMETERS IN SEMICAPTIVE ASIAN ELEPHANTS (ELEPHAS MAXIMUS) FROM MYANMAR. Journal of Zoo and Wildlife Medicine, 2020, 51, 25.	0.6	7
63	The elephant in the family: Costs and benefits of elder siblings on younger offspring lifeâ€history trajectory in a matrilineal mammal. Journal of Animal Ecology, 2021, 90, 2663-2677.	2.8	6
64	Changes in ageâ€structure over four decades were a key determinant of population growth rate in a longâ€lived mammal. Journal of Animal Ecology, 2020, 89, 2268-2278.	2.8	5
65	Milk Composition of Asian Elephants (Elephas maximus) in a Natural Environment in Myanmar during Late Lactation. Animals, 2020, 10, 725.	2.3	5
66	Town population size and structuring into villages and households drive infectious disease risks in pre-healthcare Finland. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210356.	2.6	5
67	Effects of female reproductive competition on birth rate and reproductive scheduling in a historical human population. Behavioral Ecology, 2018, 29, 333-341.	2.2	4
68	Seasonal variation of health in Asian elephants. , 2020, 8, coaa119.		4
69	Age related variation of health markers in Asian elephants. Experimental Gerontology, 2022, 157, 111629.	2.8	4
70	Demographic and reproductive associations with nematode infection in a long-lived mammal. Scientific Reports, 2020, 10, 9214.	3.3	3
71	Female-biased sex ratios in urban centers create a â€œfertility trapâ€• in post-war Finland. Behavioral Ecology, 2021, 32, 590-598.	2.2	3
72	Sex-specific links between the social landscape and faecal glucocorticoid metabolites in semi-captive Asian elephants. General and Comparative Endocrinology, 2022, 319, 113990.	1.8	3

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73	The Long-Term Success of Mandatory Vaccination Laws After Implementing the First Vaccination Campaign in 19th Century Rural Finland. American Journal of Epidemiology, 2022, 191, 1180-1189.	3.4	3
74	Evaluating the Reliability of Non-Specialist Observers in the Behavioural Assessment of Semi-Captive Asian Elephant Welfare. Animals, 2020, 10, 167.	2.3	2
75	Investigating associations between nematode infection and three measures of sociality in Asian elephants. Behavioral Ecology and Sociobiology, 2022, 76, .	1.4	2
76	Sexâ€specific body mass ageing trajectories in adult Asian elephants. Journal of Evolutionary Biology, 2022, 35, 752-762.	1.7	1
77	Turning piles of bones into living humans. Journal of Evolutionary Biology, 2001, 14, 522-523.	1.7	0
78	The Resettlement and Subsequent Assimilation of Evacuees from Finnish Karelia during and after the Second World War. , 2020, , 129-147.		0
79	Neighborhood disadvantage, greenness and population density as predictors of breastfeeding practices: a population cohort study from Finland. Journal of Nutrition, 2022, , .	2.9	0
80	Mothers with higher twinning propensity had lower fertility in pre-industrial Europe. Nature Communications, 2022, 13, .	12.8	0