

Olof Leimar

List of Publications by Year in descending order

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120
papers

9,861
citations

47006

47
h-index

37204

96
g-index

124
all docs

124
docs citations

124
times ranked

7517
citing authors

#	ARTICLE	IF	CITATIONS
1	Life-history trade-offs favour the evolution of animal personalities. <i>Nature</i> , 2007, 447, 581-584.	27.8	1,245
2	Evolution of fighting behaviour: Decision rules and assessment of relative strength. <i>Journal of Theoretical Biology</i> , 1983, 102, 387-410.	1.7	712
3	Evolution of cooperation through indirect reciprocity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 745-753.	2.6	527
4	Evolution of fighting behaviour: The effect of variation in resource value. <i>Journal of Theoretical Biology</i> , 1987, 127, 187-205.	1.7	434
5	The Effect of Flexible Growth Rates on Optimal Sizes and Development Times in a Seasonal Environment. <i>American Naturalist</i> , 1996, 147, 381-395.	2.1	384
6	A test of the sequential assessment game: fighting in the cichlid fish <i>Nannacara anomala</i> . <i>Animal Behaviour</i> , 1990, 40, 1-14.	1.9	356
7	The evolution of fatal fighting. <i>Animal Behaviour</i> , 1990, 39, 1-9.	1.9	343
8	The evolution of cooperation in mobile organisms. <i>Animal Behaviour</i> , 1993, 45, 747-757.	1.9	292
9	Disruptive selection and then what?. <i>Trends in Ecology and Evolution</i> , 2006, 21, 238-245.	8.7	269
10	Life-history analysis of the Trivers and Willard sex-ratio problem. <i>Behavioral Ecology</i> , 1996, 7, 316-325.	2.2	220
11	Effects of asymmetries in owner-intruder conflicts. <i>Journal of Theoretical Biology</i> , 1984, 111, 475-491.	1.7	210
12	Evolutionary Stability of Aposematic Coloration and Prey Unprofitability: A Theoretical Analysis. <i>American Naturalist</i> , 1986, 128, 469-490.	2.1	197
13	The Evolution of Transgenerational Integration of Information in Heterogeneous Environments. <i>American Naturalist</i> , 2015, 185, E55-E69.	2.1	170
14	Genes as leaders and followers in evolution. <i>Trends in Ecology and Evolution</i> , 2011, 26, 143-151.	8.7	151
15	The Evolution of Phenotypic Polymorphism: Randomized Strategies versus Evolutionary Branching. <i>American Naturalist</i> , 2005, 165, 669-681.	2.1	143
16	The Evolution of Gregariousness in Distasteful Insects as a Defense Against Predators. <i>American Naturalist</i> , 1988, 132, 723-734.	2.1	136
17	Sex-biased dispersal in sperm whales: contrasting mitochondrial and nuclear genetic structure of global populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 347-354.	2.6	132
18	Variation and the response to variation as a basis for successful cooperation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2627-2633.	4.0	121

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19	Associational effects of plant defences in relation to within- and between-patch food choice by a mammalian herbivore: neighbour contrast susceptibility and defence. <i>Oecologia</i> , 2006, 147, 253-260.	2.0	120
20	Pairs of cooperating cleaner fish provide better service quality than singletons. <i>Nature</i> , 2008, 455, 964-966.	27.8	119
21	Detection vs. selection: integration of genetic, epigenetic and environmental cues in fluctuating environments. <i>Ecology Letters</i> , 2016, 19, 1267-1276.	6.4	117
22	A New Perspective on Developmental Plasticity and the Principles of Adaptive Morph Determination. <i>American Naturalist</i> , 2006, 167, 367-376.	2.1	115
23	<i>G</i> _{ST} is still a useful measure of genetic differentiation – a comment on Jost's <i>D</i> . <i>Molecular Ecology</i> , 2009, 18, 2084-2087.	3.9	108
24	Genes as cues: phenotypic integration of genetic and epigenetic information from a Darwinian perspective. <i>Trends in Ecology and Evolution</i> , 2015, 30, 327-333.	8.7	102
25	Sexual conflict and cooperation in butterfly reproduction: a comparative study of polyandry and female fitness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1661-1667.	2.6	98
26	Cooperation for direct fitness benefits. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2619-2626.	4.0	96
27	Stimulus Salience as an Explanation for Imperfect Mimicry. <i>Current Biology</i> , 2014, 24, 965-969.	3.9	95
28	The evolution of movements and behaviour at boundaries in different landscapes: a common arena experiment with butterflies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1815-1821.	2.6	94
29	Low diversity and biased substitution patterns in the mitochondrial DNA control region of sperm whales: implications for estimates of time since common ancestry. <i>Molecular Biology and Evolution</i> , 1996, 13, 1318-1326.	8.9	91
30	Life History Plasticity: Influence of Photoperiod on Growth and Development in the Common Blue Butterfly. <i>Oikos</i> , 1996, 76, 228.	2.7	90
31	Multimodal pattern formation in phenotype distributions of sexual populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 347-357.	2.6	83
32	Signalling in a mutualistic interaction. <i>Animal Behaviour</i> , 1996, 52, 321-333.	1.9	80
33	Unpredictable food and sexual size dimorphism in insects. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1994, 258, 121-125.	2.6	65
34	Strategic behaviour in an interspecific mutualism: interactions between lycaenid larvae and ants. <i>Animal Behaviour</i> , 1993, 46, 1177-1182.	1.9	64
35	Did aggregation favour the initial evolution of warning coloration? A novel world revisited. <i>Animal Behaviour</i> , 2000, 59, 281-287.	1.9	64
36	EVOLUTION OF PHENOTYPIC CLUSTERS THROUGH COMPETITION AND LOCAL ADAPTATION ALONG AN ENVIRONMENTAL GRADIENT. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 807-822.	2.3	64

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37	Development and evolution of caste dimorphism in honeybees – a modeling approach. <i>Ecology and Evolution</i> , 2012, 2, 3098-3109.	1.9	61
38	Environmental and genetic cues in the evolution of phenotypic polymorphism. <i>Evolutionary Ecology</i> , 2009, 23, 125-135.	1.2	60
39	Social status and personality: stability in social state can promote consistency of behavioural responses. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132531.	2.6	60
40	The accuracy of Kramers' theory of chemical kinetics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1979, 98, 313-324.	2.6	59
41	Synergistic selection and graded traits. <i>Evolutionary Ecology</i> , 1998, 12, 59-71.	1.2	58
42	Towards an Evolutionary Theory of Stress Responses. <i>Trends in Ecology and Evolution</i> , 2021, 36, 39-48.	8.7	58
43	The effect of food quality and relative abundance on food choice in fallow deer. <i>Animal Behaviour</i> , 2002, 64, 439-445.	1.9	56
44	Game Theory in Biology. , 2020, , .		54
45	Heterospecific courtship, minority effects and niche separation between cryptic butterfly species. <i>Journal of Evolutionary Biology</i> , 2013, 26, 971-979.	1.7	53
46	PLANT SECONDARY COMPOUNDS AND THE FREQUENCY OF FOOD TYPES AFFECT FOOD CHOICE BY MAMMALIAN HERBIVORES. <i>Ecology</i> , 2005, 86, 2450-2460.	3.2	52
47	The evolution of dispersal – the importance of information about population density and habitat characteristics. <i>Oikos</i> , 2009, 118, 291-299.	2.7	52
48	A Test of the Sequential Assessment Game: Fighting in the Bowl and Doily Spider <i>Frontinella pyramitela</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1991, 45, 862.	2.3	51
49	THE EVOLUTION OF ENVIRONMENTAL AND GENETIC SEX DETERMINATION IN FLUCTUATING ENVIRONMENTS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2667-2677.	2.3	50
50	Effect of winter cold duration on spring phenology of the orange tip butterfly, <i>Anthocharis cardamines</i> . <i>Ecology and Evolution</i> , 2015, 5, 5509-5520.	1.9	48
51	A TEST OF THE SEQUENTIAL ASSESSMENT GAME: FIGHTING IN THE BOWL AND DOILY SPIDER <i>FRONTINELLA PYRAMITELA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1991, 45, 862-874.	2.3	47
52	Repeated Games: A State Space Approach. <i>Journal of Theoretical Biology</i> , 1997, 184, 471-498.	1.7	47
53	EVOLUTIONARY IMPLICATIONS OF THE FORM OF PREDATOR GENERALIZATION FOR APOSEMATIC SIGNALS AND MIMICRY IN PREY. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2913-2921.	2.3	46
54	Limiting similarity, species packing, and the shape of competition kernels. <i>Journal of Theoretical Biology</i> , 2013, 339, 3-13.	1.7	46

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55	Personality Predicts Social Dominance in Male Domestic Fowl. PLoS ONE, 2014, 9, e103535.	2.5	43
56	Spatial and temporal variation in flight morphology in the butterfly <i>Melitaea cinxia</i> (Lepidoptera: Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50 7	1.6	42
57	A comparison of animal personality and coping styles in the red junglefowl. <i>Animal Behaviour</i> , 2017, 130, 209-220.	1.9	42
58	Density-dependent dispersal in the Glanville fritillary, <i>Melitaea cinxia</i> . <i>Oikos</i> , 2005, 108, 465-472.	2.7	41
59	The relationship between learning speed and personality is age- and task-dependent in red junglefowl. <i>Behavioral Ecology and Sociobiology</i> , 2018, 72, 168.	1.4	41
60	Müllerian mimicry: an examination of Fisher's theory of gradual evolutionary change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2269-2275.	2.6	39
61	Reciprocity and communication of partner quality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 1209-1215.	2.6	36
62	THE EVOLUTION OF ENVIRONMENTAL AND GENETIC SEX DETERMINATION IN FLUCTUATING ENVIRONMENTS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2667.	2.3	36
63	Metapopulation Extinction and Genetic Variation in Dispersal-Related Traits. <i>Oikos</i> , 1997, 80, 448.	2.7	35
64	EFFECT OF MUTATION ON GENETIC DIFFERENTIATION AMONG NONEQUILIBRIUM POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2250-2259.	2.3	35
65	Inducible Defenses: Continuous Reaction Norms or Threshold Traits?. <i>American Naturalist</i> , 2011, 178, 397-410.	2.1	35
66	FEATURE SALTATION AND THE EVOLUTION OF MIMICRY. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 807-817.	2.3	32
67	Ants on a Turing trail. <i>Nature</i> , 2002, 418, 141-142.	27.8	29
68	Social stability and daily body mass gain in great tits. <i>Behavioral Ecology</i> , 2004, 15, 549-554.	2.2	29
69	Habitat exploration in butterflies " an outdoor cage experiment. <i>Evolutionary Ecology</i> , 2002, 16, 1-14.	1.2	28
70	Unpredictable environments, nuptial gifts and the evolution of sexual size dimorphism in insects: an experiment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 475-479.	2.6	27
71	Learning and the mimicry spectrum: from quasi-Bates to super-Müller. <i>Animal Behaviour</i> , 2008, 76, 1591-1599.	1.9	26
72	FEATURE THEORY AND THE TWO-STEP HYPOTHESIS OF MÜLLERIAN MIMICRY EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 810-822.	2.3	26

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73	A simple fitness proxy for structured populations with continuous traits, with case studies on the evolution of haplo-diploids and genetic dimorphisms. <i>Journal of Biological Dynamics</i> , 2011, 5, 163-190.	1.7	25
74	Winter chilling speeds spring development of temperate butterflies. <i>Journal of Animal Ecology</i> , 2017, 86, 718-729.	2.8	25
75	Fitness Interactions among Plants: Optimal Defence and Evolutionary Game Theory. , 1999, , 63-83.		24
76	Facing the facts. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1403-1405.	1.7	23
77	Wolf et al. reply. <i>Nature</i> , 2007, 450, E5-E6.	27.8	23
78	A test of simultaneous and successive negative contrast in fallow deer foraging behaviour. <i>Animal Behaviour</i> , 2007, 74, 395-402.	1.9	23
79	The effect of spatial scale on plant associational defences against mammalian herbivores. <i>Ecoscience</i> , 2008, 15, 343-348.	1.4	23
80	Reinforcement Learning Theory Reveals the Cognitive Requirements for Solving the Cleaner Fish Market Task. <i>American Naturalist</i> , 2020, 195, 664-677.	2.1	22
81	Adaptation and constraint in the evolution of environmental sex determination. <i>Journal of Theoretical Biology</i> , 2004, 227, 561-570.	1.7	20
82	Spatial scales of foraging in fallow deer: Implications for associational effects in plant defences. <i>Acta Oecologica</i> , 2008, 34, 12-20.	1.1	20
83	Individual aggression, but not winnerâ€“loser effects, predicts social rank in male domestic fowl. <i>Behavioral Ecology</i> , 2017, 28, 874-882.	2.2	19
84	Towards a mechanistic understanding of insect life history evolution: oxygen-dependent induction of moulting explains moulting sizes. <i>Biological Journal of the Linnean Society</i> , 2016, 117, 586-600.	1.6	18
85	Habitat preference and habitat exploration in two species of satyrine butterflies. <i>Ecography</i> , 2003, 26, 474-480.	4.5	16
86	Food Selection by Herbivores and Neighbourhood Effects in the Evolution of Plant Defences. <i>Annales Zoologici Fennici</i> , 2012, 49, 45-57.	0.6	16
87	Variation in two phases of postâ€“winter development of a butterfly. <i>Journal of Evolutionary Biology</i> , 2014, 27, 2644-2653.	1.7	16
88	Multi-trait mimicry and the relative salience of individual traits. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20152127.	2.6	16
89	The function of threat display in wintering great tits. <i>Animal Behaviour</i> , 2003, 65, 573-584.	1.9	15
90	Transgenerational effects and the cost of ant tending in aphids. <i>Oecologia</i> , 2013, 173, 779-790.	2.0	14

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91	Cooperating for direct fitness benefits. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1400-1402.	1.7	13
92	Ant-aphid mutualism: the influence of ants on the aphid summer cycle. <i>Oikos</i> , 2012, 121, 61-66.	2.7	13
93	Adaptation to fluctuating environments in a selection experiment with <i>Drosophila melanogaster</i> . <i>Ecology and Evolution</i> , 2017, 7, 3796-3807.	1.9	13
94	Learning leads to bounded rationality and the evolution of cognitive bias in public goods games. <i>Scientific Reports</i> , 2019, 9, 16319.	3.3	13
95	The Evolution of Social Dominance through Reinforcement Learning. <i>American Naturalist</i> , 2021, 197, 560-575.	2.1	13
96	The influence of predation risk on threat display in great tits. <i>Behavioral Ecology</i> , 2001, 12, 375-380.	2.2	12
97	Wolf et al. reply. <i>Nature</i> , 2008, 451, E9-E10.	27.8	12
98	Biased generalization of salient traits drives the evolution of warning signals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180283.	2.6	12
99	Reproductive skew, fighting costs and winner-loser effects in social dominance evolution. <i>Journal of Animal Ecology</i> , 2022, 91, 1036-1046.	2.8	12
100	Generalization of learned preferences covaries with behavioral flexibility in red junglefowl chicks. <i>Behavioral Ecology</i> , 2019, 30, 1375-1381.	2.2	11
101	Phenological matching rather than genetic variation in host preference underlies geographical variation in host plants used by orange tip butterflies. <i>Biological Journal of the Linnean Society</i> , 2016, 119, 1060-1067.	1.6	10
102	Genes as Cues of Relatedness and Social Evolution in Heterogeneous Environments. <i>PLoS Computational Biology</i> , 2016, 12, e1005006.	3.2	9
103	An evolutionary perspective on stress responses, damage and repair. <i>Hormones and Behavior</i> , 2022, 142, 105180.	2.1	9
104	Ecological Genetic Conflict: Genetic Architecture Can Shift the Balance between Local Adaptation and Plasticity. <i>American Naturalist</i> , 2019, 193, 70-80.	2.1	8
105	Borrowed plant defences: Detering browsers using a forestry by-product. <i>Forest Ecology and Management</i> , 2017, 390, 1-7.	3.2	7
106	Directional associational plant defense from Red deer (<i>Cervus elaphus</i>) foraging decisions. <i>Ecosphere</i> , 2017, 8, e01714.	2.2	6
107	Learning, exploitation and bias in games. <i>PLoS ONE</i> , 2021, 16, e0246588.	2.5	6
108	Evolutionary Game Theory in Biology. <i>Handbook of Game Theory With Economic Applications</i> , 2015, 4, 575-617.	1.3	5

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109	Game theory models of animal contests: are we at a standstill?: a comment on Chapin et al.. Behavioral Ecology, 2019, 30, 1190-1191.	2.2	5
110	Alate production in an aphid in relation to ant tending and alarm pheromone. Ecological Entomology, 2014, 39, 664-666.	2.2	4
111	Personality remains: no effect of 3-week social status experience on personality in male fowl. Behavioral Ecology, 2018, 29, 312-320.	2.2	4
112	Learning of salient prey traits explains Batesian mimicry evolution. Evolution; International Journal of Organic Evolution, 2018, 72, 531-539.	2.3	4
113	Effects of social experience, aggressiveness and comb size on contest success in male domestic fowl. Royal Society Open Science, 2021, 8, 201213.	2.4	4
114	The evolution of social learning as phenotypic cue integration. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200048.	4.0	3
115	On the emergence of new function in primitive proteins. Journal of Theoretical Biology, 1978, 75, 167-180.	1.7	2
116	Efficient application of a browsing repellent: Can associational effects within and between plants be exploited?. European Journal of Forest Research, 2019, 138, 253-262.	2.5	2
117	The evolution of novel cues for ancestral phenotypes. Trends in Ecology and Evolution, 2011, 26, 436-437.	8.7	1
118	Cooperation, with friends or with relatives?. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2107652118.	7.1	1
119	The Distribution of the Paternity Index as a Basis for Evaluation of Sequential Testing in Paternity Analysis. Human Heredity, 1984, 34, 46-58.	0.8	0
120	Egg clustering: Mother Wants her Neighbour's Offspring to be Eaten First. Ethology, 1991, 88, 342-344.	1.1	0