

# 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	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
2	An evolutionary perspective on stress responses, damage and repair. <i>Hormones and Behavior</i> , 2022, 142, 105180.	2.1	9
3	Towards an Evolutionary Theory of Stress Responses. <i>Trends in Ecology and Evolution</i> , 2021, 36, 39-48.	8.7	58
4	Learning, exploitation and bias in games. <i>PLoS ONE</i> , 2021, 16, e0246588.	2.5	6
5	Effects of social experience, aggressiveness and comb size on contest success in male domestic fowl. <i>Royal Society Open Science</i> , 2021, 8, 201213.	2.4	4
6	The Evolution of Social Dominance through Reinforcement Learning. <i>American Naturalist</i> , 2021, 197, 560-575.	2.1	13
7	The evolution of social learning as phenotypic cue integration. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200048.	4.0	3
8	Cooperation, with friends or with relatives?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2107652118.	7.1	1
9	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
10	Game Theory in Biology. , 2020, , .		54
11	Generalization of learned preferences covaries with behavioral flexibility in red junglefowl chicks. <i>Behavioral Ecology</i> , 2019, 30, 1375-1381.	2.2	11
12	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
13	Game theory models of animal contests: are we at a standstill?: a comment on Chapin et al.. <i>Behavioral Ecology</i> , 2019, 30, 1190-1191.	2.2	5
14	Efficient application of a browsing repellent: Can associational effects within and between plants be exploited?. <i>European Journal of Forest Research</i> , 2019, 138, 253-262.	2.5	2
15	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
16	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
17	Personality remains: no effect of 3-week social status experience on personality in male fowl. <i>Behavioral Ecology</i> , 2018, 29, 312-320.	2.2	4
18	Learning of salient prey traits explains Batesian mimicry evolution. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 531-539.	2.3	4

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19	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
20	Borrowed plant defences: Deterring browsers using a forestry by-product. <i>Forest Ecology and Management</i> , 2017, 390, 1-7.	3.2	7
21	Winter chilling speeds spring development of temperate butterflies. <i>Journal of Animal Ecology</i> , 2017, 86, 718-729.	2.8	25
22	Individual aggression, but not winner–loser effects, predicts social rank in male domestic fowl. <i>Behavioral Ecology</i> , 2017, 28, 874-882.	2.2	19
23	A comparison of animal personality and coping styles in the red junglefowl. <i>Animal Behaviour</i> , 2017, 130, 209-220.	1.9	42
24	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
25	Directional associational plant defense from Red deer ( <i>Cervus elaphus</i> ) foraging decisions. <i>Ecosphere</i> , 2017, 8, e01714.	2.2	6
26	Genes as Cues of Relatedness and Social Evolution in Heterogeneous Environments. <i>PLoS Computational Biology</i> , 2016, 12, e1005006.	3.2	9
27	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
28	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
29	Detection vs. selection: integration of genetic, epigenetic and environmental cues in fluctuating environments. <i>Ecology Letters</i> , 2016, 19, 1267-1276.	6.4	117
30	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
31	Evolutionary Game Theory in Biology. <i>Handbook of Game Theory With Economic Applications</i> , 2015, 4, 575-617.	1.3	5
32	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
33	The Evolution of Transgenerational Integration of Information in Heterogeneous Environments. <i>American Naturalist</i> , 2015, 185, E55-E69.	2.1	170
34	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
35	Personality Predicts Social Dominance in Male Domestic Fowl. <i>PLoS ONE</i> , 2014, 9, e103535.	2.5	43
36	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

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37	Stimulus Salience as an Explanation for Imperfect Mimicry. <i>Current Biology</i> , 2014, 24, 965-969.	3.9	95
38	Alate production in an aphid in relation to ant tending and alarm pheromone. <i>Ecological Entomology</i> , 2014, 39, 664-666.	2.2	4
39	Variation in two phases of post-winter development of a butterfly. <i>Journal of Evolutionary Biology</i> , 2014, 27, 2644-2653.	1.7	16
40	Transgenerational effects and the cost of ant tending in aphids. <i>Oecologia</i> , 2013, 173, 779-790.	2.0	14
41	Limiting similarity, species packing, and the shape of competition kernels. <i>Journal of Theoretical Biology</i> , 2013, 339, 3-13.	1.7	46
42	Heterospecific courtship, minority effects and niche separation between cryptic butterfly species. <i>Journal of Evolutionary Biology</i> , 2013, 26, 971-979.	1.7	53
43	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
44	Development and evolution of caste dimorphism in honeybees – a modeling approach. <i>Ecology and Evolution</i> , 2012, 2, 3098-3109.	1.9	61
45	FEATURE SALTATION AND THE EVOLUTION OF MIMICRY. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 807-817.	2.3	32
46	Ant-aphid mutualism: the influence of ants on the aphid summer cycle. <i>Oikos</i> , 2012, 121, 61-66.	2.7	13
47	Genes as leaders and followers in evolution. <i>Trends in Ecology and Evolution</i> , 2011, 26, 143-151.	8.7	151
48	The evolution of novel cues for ancestral phenotypes. <i>Trends in Ecology and Evolution</i> , 2011, 26, 436-437.	8.7	1
49	Inducible Defenses: Continuous Reaction Norms or Threshold Traits?. <i>American Naturalist</i> , 2011, 178, 397-410.	2.1	35
50	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
51	FEATURE THEORY AND THE TWO-STEP HYPOTHESIS OF MÄLLERIAN MIMICRY EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 810-822.	2.3	26
52	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
53	Cooperation for direct fitness benefits. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2619-2626.	4.0	96
54	Environmental and genetic cues in the evolution of phenotypic polymorphism. <i>Evolutionary Ecology</i> , 2009, 23, 125-135.	1.2	60

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55	<i>G<sub>ST</sub></i> 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
56	The evolution of dispersal – the importance of information about population density and habitat characteristics. <i>Oikos</i> , 2009, 118, 291-299.	2.7	52
57	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
58	EFFECT OF MUTATION ON GENETIC DIFFERENTIATION AMONG NONEQUILIBRIUM POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2250-2259.	2.3	35
59	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
60	Wolf et al. reply. <i>Nature</i> , 2008, 451, E9-E10.	27.8	12
61	Pairs of cooperating cleaner fish provide better service quality than singletons. <i>Nature</i> , 2008, 455, 964-966.	27.8	119
62	Learning and the mimicry spectrum: from quasi-Bates to super-Müller. <i>Animal Behaviour</i> , 2008, 76, 1591-1599.	1.9	26
63	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
64	The effect of spatial scale on plant associational defences against mammalian herbivores. <i>Ecoscience</i> , 2008, 15, 343-348.	1.4	23
65	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
66	Life-history trade-offs favour the evolution of animal personalities. <i>Nature</i> , 2007, 447, 581-584.	27.8	1,245
67	Wolf et al. reply. <i>Nature</i> , 2007, 450, E5-E6.	27.8	23
68	A test of simultaneous and successive negative contrast in fallow deer foraging behaviour. <i>Animal Behaviour</i> , 2007, 74, 395-402.	1.9	23
69	Disruptive selection and then what?. <i>Trends in Ecology and Evolution</i> , 2006, 21, 238-245.	8.7	269
70	Facing the facts. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1403-1405.	1.7	23
71	Cooperating for direct fitness benefits. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1400-1402.	1.7	13
72	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

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73	A New Perspective on Developmental Plasticity and the Principles of Adaptive Morph Determination. <i>American Naturalist</i> , 2006, 167, 367-376.	2.1	115
74	Density-dependent dispersal in the Glanville fritillary, <i>Melitaea cinxia</i> . <i>Oikos</i> , 2005, 108, 465-472.	2.7	41
75	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
76	The Evolution of Phenotypic Polymorphism: Randomized Strategies versus Evolutionary Branching. <i>American Naturalist</i> , 2005, 165, 669-681.	2.1	143
77	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
78	Social stability and daily body mass gain in great tits. <i>Behavioral Ecology</i> , 2004, 15, 549-554.	2.2	29
79	Adaptation and constraint in the evolution of environmental sex determination. <i>Journal of Theoretical Biology</i> , 2004, 227, 561-570.	1.7	20
80	Habitat preference and habitat exploration in two species of satyrine butterflies. <i>Ecography</i> , 2003, 26, 474-480.	4.5	16
81	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
82	The function of threat display in wintering great tits. <i>Animal Behaviour</i> , 2003, 65, 573-584.	1.9	15
83	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
84	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
85	Spatial and temporal variation in flight morphology in the butterfly <i>Melitaea cinxia</i> (Lepidoptera: Pieridae). <i>Evolution</i> , 2003, 57, 1074-1084.	1.6	42
86	Ants on a Turing trail. <i>Nature</i> , 2002, 418, 141-142.	27.8	29
87	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
88	Habitat exploration in butterflies – an outdoor cage experiment. <i>Evolutionary Ecology</i> , 2002, 16, 1-14.	1.2	28
89	Evolution of cooperation through indirect reciprocity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 745-753.	2.6	527
90	The influence of predation risk on threat display in great tits. <i>Behavioral Ecology</i> , 2001, 12, 375-380.	2.2	12

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91	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
92	Did aggregation favour the initial evolution of warning coloration? A novel world revisited. <i>Animal Behaviour</i> , 2000, 59, 281-287.	1.9	64
93	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
94	Fitness Interactions among Plants: Optimal Defence and Evolutionary Game Theory. , 1999, , 63-83.		24
95	Synergistic selection and graded traits. <i>Evolutionary Ecology</i> , 1998, 12, 59-71.	1.2	58
96	Metapopulation Extinction and Genetic Variation in Dispersal-Related Traits. <i>Oikos</i> , 1997, 80, 448.	2.7	35
97	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
98	Reciprocity and communication of partner quality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 1209-1215.	2.6	36
99	Repeated Games: A State Space Approach. <i>Journal of Theoretical Biology</i> , 1997, 184, 471-498.	1.7	47
100	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
101	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
102	Signalling in a mutualistic interaction. <i>Animal Behaviour</i> , 1996, 52, 321-333.	1.9	80
103	Life-history analysis of the Trivers and Willard sex-ratio problem. <i>Behavioral Ecology</i> , 1996, 7, 316-325.	2.2	220
104	Life History Plasticity: Influence of Photoperiod on Growth and Development in the Common Blue Butterfly. <i>Oikos</i> , 1996, 76, 228.	2.7	90
105	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
106	The evolution of cooperation in mobile organisms. <i>Animal Behaviour</i> , 1993, 45, 747-757.	1.9	292
107	Strategic behaviour in an interspecific mutualism: interactions between lycaenid larvae and ants. <i>Animal Behaviour</i> , 1993, 46, 1177-1182.	1.9	64
108	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

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109	A TEST OF THE SEQUENTIAL ASSESSMENT GAME: FIGHTING IN THE BOWL AND DOILY SPIDER <i>FRONTINELLA PYRAMITELA</i>. Evolution; International Journal of Organic Evolution, 1991, 45, 862-874.	2.3	47
110	Eggâ€œclustering: Mother Wants her Neighbour's Offspring to be Eaten First. Ethology, 1991, 88, 342-344.	1.1	0
111	A test of the sequential assessment game: fighting in the cichlid fish Nannacara anomala. Animal Behaviour, 1990, 40, 1-14.	1.9	356
112	The evolution of fatal fighting. Animal Behaviour, 1990, 39, 1-9.	1.9	343
113	The Evolution of Gregariousness in Distasteful Insects as a Defense Against Predators. American Naturalist, 1988, 132, 723-734.	2.1	136
114	Evolution of fighting behaviour: The effect of variation in resource value. Journal of Theoretical Biology, 1987, 127, 187-205.	1.7	434
115	Evolutionary Stability of Aposematic Coloration and Prey Unprofitability: A Theoretical Analysis. American Naturalist, 1986, 128, 469-490.	2.1	197
116	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
117	Effects of asymmetries in owner-intruder conflicts. Journal of Theoretical Biology, 1984, 111, 475-491.	1.7	210
118	Evolution of fighting behaviour: Decision rules and assessment of relative strength. Journal of Theoretical Biology, 1983, 102, 387-410.	1.7	712
119	The accuracy of Kramers' theory of chemical kinetics. Physica A: Statistical Mechanics and Its Applications, 1979, 98, 313-324.	2.6	59
120	On the emergence of new function in primitive proteins. Journal of Theoretical Biology, 1978, 75, 167-180.	1.7	2