

Laurent Lehmann

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,607
citations

159585

30
h-index

155660

55
g-index

83
all docs

83
docs citations

83
times ranked

3067
citing authors

#	ARTICLE	IF	CITATIONS
1	The Population Genetics of Clonal and Partially Clonal Diploids. <i>Genetics</i> , 2003, 164, 1635-1644.	2.9	509
2	Group selection and kin selection: Two concepts but one process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6736-6739.	7.1	266
3	How life history and demography promote or inhibit the evolution of helping behaviours. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2599-2617.	4.0	207
4	Inbreeding Avoidance through Kin Recognition: Choosy Females Boost Male Dispersal. <i>American Naturalist</i> , 2003, 162, 638-652.	2.1	183
5	POPULATION DEMOGRAPHY AND THE EVOLUTION OF HELPING BEHAVIORS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1137-1151.	2.3	121
6	Molecular epidemiology of clonal diploids: A quick overview and a short DIY (do it yourself) notice. <i>Infection, Genetics and Evolution</i> , 2006, 6, 163-170.	2.3	99
7	Cultural Transmission Can Inhibit the Evolution of Altruistic Helping. <i>American Naturalist</i> , 2008, 172, 12-24.	2.1	96
8	Strong Reciprocity or Strong Ferocity? A Population Genetic View of the Evolution of Altruistic Punishment. <i>American Naturalist</i> , 2007, 170, 21-36.	2.1	95
9	Rates of cultural change and patterns of cultural accumulation in stochastic models of social transmission. <i>Theoretical Population Biology</i> , 2011, 79, 192-202.	1.1	90
10	The co-evolution of culturally inherited altruistic helping and cultural transmission under random group formation. <i>Theoretical Population Biology</i> , 2008, 73, 506-516.	1.1	83
11	War and the evolution of belligerence and bravery. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2877-2885.	2.6	82
12	The genetical theory of social behaviour. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130357.	4.0	76
13	Gains from switching and evolutionary stability in multi-player matrix games. <i>Journal of Theoretical Biology</i> , 2014, 346, 23-33.	1.7	74
14	An evolutionary model explaining the Neolithic transition from egalitarianism to leadership and despotism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141349.	2.6	66
15	How institutions shaped the last major evolutionary transition to large-scale human societies. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150098.	4.0	64
16	Social polymorphism is favoured by the co-evolution of dispersal with social behaviour. <i>Nature Ecology and Evolution</i> , 2018, 2, 132-140.	7.8	64
17	Evolutionary dynamics of collective action in spatially structured populations. <i>Journal of Theoretical Biology</i> , 2015, 382, 122-136.	1.7	59
18	Altruism, Dispersal, and Phenotype-Matching Kin Recognition. <i>American Naturalist</i> , 2002, 159, 451-468.	2.1	58

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19	Natural Selection on Fecundity Variance in Subdivided Populations: Kin Selection Meets Bet Hedging. <i>Genetics</i> , 2007, 176, 361-377.	2.9	55
20	Evolutionary Stability of Jointly Evolving Traits in Subdivided Populations. <i>American Naturalist</i> , 2016, 188, 175-195.	2.1	55
21	The evolution of altruism and the serial rediscovery of the role of relatedness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28894-28898.	7.1	53
22	Invasion fitness, inclusive fitness, and reproductive numbers in heterogeneous populations. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 1689-1702.	2.3	52
23	On the number of independent cultural traits carried by individuals and populations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 424-435.	4.0	51
24	Evolutionarily stable learning schedules and cumulative culture in discrete generation models. <i>Theoretical Population Biology</i> , 2012, 81, 300-309.	1.1	49
25	Does evolution lead to maximizing behavior?. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 1858-1873.	2.3	43
26	ON OPTIMAL LEARNING SCHEDULES AND THE MARGINAL VALUE OF CUMULATIVE CULTURAL EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, no-no.	2.3	37
27	When is bigger better? The effects of group size on the evolution of helping behaviours. <i>Biological Reviews</i> , 2017, 92, 902-920.	10.4	37
28	Population viscosity can promote the evolution of altruistic sterile helpers and eusociality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1887-1895.	2.6	35
29	How Demography, Life History, and Kinship Shape the Evolution of Genomic Imprinting. <i>American Naturalist</i> , 2010, 176, 440-455.	2.1	35
30	Evolutionary branching in deme-structured populations. <i>Journal of Theoretical Biology</i> , 2014, 351, 83-95.	1.7	35
31	Mate choice evolution, dominance effects, and the maintenance of genetic variation. <i>Journal of Theoretical Biology</i> , 2007, 244, 282-295.	1.7	34
32	Random Mating With a Finite Number of Matings. <i>Genetics</i> , 2003, 165, 2313-2315.	2.9	34
33	Coevolution of adaptive technology, maladaptive culture and population size in a producer-scrounger game. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 3853-3862.	2.6	32
34	Population demography and the evolution of helping behaviors. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1137-51.	2.3	32
35	Stochastic stability and the evolution of coordination in spatially structured populations. <i>Theoretical Population Biology</i> , 2013, 89, 75-87.	1.1	31
36	The interplay between relatedness and horizontal gene transfer drives the evolution of plasmid-carried public goods. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130400.	2.6	31

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37	Effects of Brood Manipulation Costs on Optimal Sex Allocation in Social Hymenoptera. <i>American Naturalist</i> , 2004, 164, E73-E82.	2.1	29
38	The co-evolution of social institutions, demography, and large-scale human cooperation. <i>Ecology Letters</i> , 2013, 16, 1356-1364.	6.4	28
39	On learning dynamics underlying the evolution of learning rules. <i>Theoretical Population Biology</i> , 2014, 91, 20-36.	1.1	28
40	The stationary distribution of a continuously varying strategy in a class-structured population under mutation-selection-drift balance. <i>Journal of Evolutionary Biology</i> , 2012, 25, 770-787.	1.7	27
41	Social and individual learning of helping in humans and other species. <i>Trends in Ecology and Evolution</i> , 2008, 23, 664-671.	8.7	22
42	Environmental complexity favors the evolution of learning. <i>Behavioral Ecology</i> , 2016, 27, 842-850.	2.2	22
43	An evolutionary quantitative genetics model for phenotypic (co)variances under limited dispersal, with an application to socially synergistic traits. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1695-1728.	2.3	22
44	Fitness, inclusive fitness, and optimization. <i>Biology and Philosophy</i> , 2014, 29, 181-195.	1.4	20
45	Social network architecture and the maintenance of deleterious cultural traits. <i>Journal of the Royal Society Interface</i> , 2012, 9, 848-858.	3.4	19
46	Evolutionary and convergence stability for continuous phenotypes in finite populations derived from two-allele models. <i>Journal of Theoretical Biology</i> , 2012, 310, 206-215.	1.7	19
47	Eco-Evolutionary Dynamics in Metacommunities: Ecological Inheritance, Helping within Species, and Harming between Species. <i>American Naturalist</i> , 2018, 192, 664-686.	2.1	19
48	A model for the evolution of reinforcement learning in fluctuating games. <i>Animal Behaviour</i> , 2015, 104, 87-114.	1.9	18
49	Kin selection and altruism. <i>Current Biology</i> , 2019, 29, R438-R442.	3.9	18
50	Evolution of preferences in structured populations: Genes, guns, and culture. <i>Journal of Economic Theory</i> , 2020, 185, 104951.	1.1	18
51	When Do Individuals Maximize Their Inclusive Fitness?. <i>American Naturalist</i> , 2020, 195, 717-732.	2.1	18
52	Coevolution between positive reciprocity, punishment, and partner switching in repeated interactions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160488.	2.6	17
53	Perturbation expansions of multilocus fixation probabilities for frequency-dependent selection with applications to the Hill-Robertson effect and to the joint evolution of helping and punishment. <i>Theoretical Population Biology</i> , 2009, 76, 35-51.	1.1	16
54	Sex allocation conflict and sexual selection throughout the lifespan of eusocial colonies. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1116-1132.	2.3	16

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55	Space-Time Relatedness and Hamilton's Rule for Long-Lasting Behaviors in Viscous Populations. <i>American Naturalist</i> , 2010, 175, 136-143.	2.1	15
56	A model for brain life history evolution. <i>PLoS Computational Biology</i> , 2017, 13, e1005380.	3.2	15
57	Invasion implies substitution in ecological communities with class-structured populations. <i>Theoretical Population Biology</i> , 2020, 134, 36-52.	1.1	15
58	ON METAPOPOPULATION RESISTANCE TO DRIFT AND EXTINCTION. <i>Ecology</i> , 2006, 87, 1844-1855.	3.2	13
59	Stochastic Demography and the Neutral Substitution Rate in Class-Structured Populations. <i>Genetics</i> , 2014, 197, 351-360.	2.9	13
60	The Demographic Benefits of Belligerence and Bravery: Defeated Group Repopulation or Victorious Group Size Expansion?. <i>PLoS ONE</i> , 2011, 6, e21437.	2.5	13
61	Genetics and bisexuality. <i>Nature</i> , 2007, 445, 158-159.	27.8	12
62	Cooperation in large-scale human societies "What, if anything, makes it unique, and how did it evolve?. <i>Evolutionary Anthropology</i> , 2021, 30, 280-293.	3.4	12
63	The handaxe and the microscope: individual and social learning in a multidimensional model of adaptation. <i>Evolution and Human Behavior</i> , 2013, 34, 109-117.	2.2	11
64	The components of directional and disruptive selection in heterogeneous group-structured populations. <i>Journal of Theoretical Biology</i> , 2020, 507, 110449.	1.7	11
65	Underappreciated features of cultural evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200259.	4.0	11
66	Invasion fitness for gene-culture co-evolution in family-structured populations and an application to cumulative culture under vertical transmission. <i>Theoretical Population Biology</i> , 2017, 116, 33-46.	1.1	10
67	The effect of innovation and sex-specific migration on neutral cultural differentiation. <i>Animal Behaviour</i> , 2011, 82, 101-112.	1.9	8
68	The evolution of social discounting in hierarchically clustered populations. <i>Molecular Ecology</i> , 2012, 21, 447-471.	3.9	8
69	Hamilton's rule, gradual evolution, and the optimal (feedback) control of phenotypically plastic traits. <i>Journal of Theoretical Biology</i> , 2021, 526, 110602.	1.7	8
70	A reinforcement learning model for grooming up the hierarchy in primates. <i>Animal Behaviour</i> , 2018, 138, 165-185.	1.9	7
71	Metacommunities, fitness and gradual evolution. <i>Theoretical Population Biology</i> , 2021, 142, 12-35.	1.1	7
72	Evolution of warfare by resource raiding favours polymorphism in belligerence and bravery. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20210136.	4.0	6

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73	The Evolution and Consequences of Sex-Specific Reproductive Variance. <i>Genetics</i> , 2014, 196, 235-252.	2.9	5
74	Linking micro and macroevolution in the presence of migration. <i>Journal of Theoretical Biology</i> , 2020, 486, 110087.	1.7	4
75	Four levers of reciprocity across human societies: concepts, analysis and predictions. <i>Evolutionary Human Sciences</i> , 2022, 4, .	1.7	3
76	Some topics in theoretical population genetics: Editorial commentaries on a selection of Marc Feldman's TPB papers. <i>Theoretical Population Biology</i> , 2019, 129, 4-8.	1.1	1
77	Hamilton's rule: Game theory meets coalescent theory. <i>Theoretical Population Biology</i> , 2015, 103, 1.	1.1	0
78	Reply to Leimar and Hammerstein: Limited gene flow leads to individuals being related within groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2108545118.	7.1	0