

Regis Ferriere

List of Publications by Year in descending order

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89
papers

5,217
citations

81900

39
h-index

95266

68
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95
all docs

95
docs citations

95
times ranked

6213
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological acoustic sensing of ground stiffness: Presenting a potential means of sensing warming permafrost in a forest. <i>Cold Regions Science and Technology</i> , 2022, 199, 103569.	3.5	2
2	Coevolutionary transitions from antagonism to mutualism explained by the Co-Opted Antagonist Hypothesis. <i>Nature Communications</i> , 2021, 12, 2867.	12.8	15
3	Bayesian analysis of Enceladus's plume data to assess methanogenesis. <i>Nature Astronomy</i> , 2021, 5, 805-814.	10.1	29
4	Looking for the -scape in the sound: Discriminating soundscapes categories in the Sonoran Desert using indices and clustering. <i>Ecological Indicators</i> , 2021, 127, 107805.	6.3	5
5	Chapitre 13. L'Évolution de la coopération. , 2021, , 407-440.		0
6	A multi-scale eco-evolutionary model of cooperation reveals how microbial adaptation influences soil decomposition. <i>Communications Biology</i> , 2020, 3, 520.	4.4	7
7	Characterizing amplitude and frequency modulation cues in natural soundscapes: A pilot study on four habitats of a biosphere reserve. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 3260-3274.	1.1	9
8	Interactions among interactions: The dynamical consequences of antagonism between mutualists. <i>Journal of Theoretical Biology</i> , 2020, 501, 110334.	1.7	1
9	Co-evolution of primitive methane-cycling ecosystems and early Earth's atmosphere and climate. <i>Nature Communications</i> , 2020, 11, 2705.	12.8	28
10	Topological acoustic sensing of spatial patterns of trees in a model forest landscape. <i>Ecological Modelling</i> , 2020, 419, 108964.	2.5	6
11	Biotic soil-plant interaction processes explain most of hysteretic soil CO ₂ efflux response to temperature in cross-factorial mesocosm experiment. <i>Scientific Reports</i> , 2020, 10, 905.	3.3	9
12	Local adaptation, dispersal evolution, and the spatial eco-evolutionary dynamics of invasion. <i>Ecology Letters</i> , 2019, 22, 767-777.	6.4	32
13	Clade diversification dynamics and the biotic and abiotic controls of speciation and extinction rates. <i>Nature Communications</i> , 2018, 9, 3013.	12.8	54
14	The effect of competition and horizontal trait inheritance on invasion, fixation, and polymorphism. <i>Journal of Theoretical Biology</i> , 2016, 411, 48-58.	1.7	12
15	Eco-evolutionary feedbacks between private and public goods: evidence from toxic algal blooms. <i>Ecology Letters</i> , 2016, 19, 81-97.	6.4	32
16	The Landscape Evolution Observatory: A large-scale controllable infrastructure to study coupled Earth-surface processes. <i>Geomorphology</i> , 2015, 244, 190-203.	2.6	47
17	Stochastic dynamics of adaptive trait and neutral marker driven by eco-evolutionary feedbacks. <i>Journal of Mathematical Biology</i> , 2015, 71, 1211-1242.	1.9	8
18	How Ecology and Landscape Dynamics Shape Phylogenetic Trees. <i>Systematic Biology</i> , 2015, 64, 590-607.	5.6	37

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19	Do Eco-Evo Feedbacks Help Us Understand Nature? Answers From Studies of the Trinidadian Guppy. <i>Advances in Ecological Research</i> , 2014, , 1-40.	2.7	69
20	Ecological Models for Gene Therapy. II. Niche Construction, Nongenetic Inheritance, and Ecosystem Perturbations. <i>Biological Theory</i> , 2014, 9, 414-422.	1.5	1
21	Climate and Atmosphere Simulator for Experiments on Ecological Systems in Changing Environments. <i>Environmental Science & Technology</i> , 2014, 48, 8744-8753.	10.0	18
22	Intermittent breeding and the dynamics of resource allocation to reproduction, growth and survival. <i>Functional Ecology</i> , 2013, 27, 173-183.	3.6	25
23	Eco-evolutionary feedbacks, adaptive dynamics and evolutionary rescue theory. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120081.	4.0	111
24	Evolutionary rescue: an emerging focus at the intersection between ecology and evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120404.	4.0	306
25	Evolving ecological networks and the emergence of biodiversity patterns across temperature gradients. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 1051-1060.	2.6	40
26	Eco-Evolutionary Community Dynamics: Covariation between Diversity and Invasibility across Temperature Gradients. <i>American Naturalist</i> , 2012, 180, E110-E126.	2.1	9
27	Direct and Indirect Ecosystem Effects of Evolutionary Adaptation in the Trinidadian Guppy (<i>Poecilia reticulata</i>). <i>Journal of Ecology</i> , 2012, 100, 1051-1060.	2.1	85
28	Widespread intraspecific organismal stoichiometry among populations of the Trinidadian guppy. <i>Functional Ecology</i> , 2012, 26, 666-676.	3.6	83
29	The fundamental role of competition in the ecology and evolution of mutualisms. <i>Annals of the New York Academy of Sciences</i> , 2012, 1256, 66-88.	3.8	79
30	Inclusive fitness theory and eusociality. <i>Nature</i> , 2011, 471, E1-E4.	27.8	339
31	Inclusive fitness in evolution. <i>Nature</i> , 2011, 471, E6-E8.	27.8	44
32	A UNIFIED MODEL FOR THE COEVOLUTION OF RESISTANCE, TOLERANCE, AND VIRULENCE. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, no-no.	2.3	53
33	Cohort variation in offspring growth and survival: prenatal and postnatal factors in a late-maturing viviparous snake. <i>Journal of Animal Ecology</i> , 2010, 79, 640-649.	2.8	32
34	Chaotic Red Queen coevolution in three-species food chains. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2321-2330.	2.6	41
35	Stochastic and deterministic models for age-structured populations with genetically variable traits. <i>ESAIM: Proceedings and Surveys</i> , 2009, 27, 289-310.	0.4	18
36	Advancing the metabolic theory of biodiversity. <i>Ecology Letters</i> , 2009, 12, 1001-1015.	6.4	68

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37	Eco-evolutionary Dynamics of Mutualists and Exploiters. <i>American Naturalist</i> , 2009, 174, 780-794.	2.1	66
38	Climate warming, dispersal inhibition and extinction risk. <i>Global Change Biology</i> , 2008, 14, 461-469.	9.5	112
39	From Individual Stochastic Processes to Macroscopic Models in Adaptive Evolution. <i>Stochastic Models</i> , 2008, 24, 2-44.	0.5	88
40	Reproductive Flexibility: Genetic Variation, Genetic Costs and Long-Term Evolution in a Collembola. <i>PLoS ONE</i> , 2008, 3, e3207.	2.5	43
41	Bet Hedging via Seed Banking in Desert Evening Primroses (<i>Oenothera</i> , <i>Onagraceae</i>): Demographic Evidence from Natural Populations. <i>American Naturalist</i> , 2007, 169, 184-194.	2.1	83
42	Evolution and persistence of obligate mutualists and exploiters: competition for partners and evolutionary immunization. <i>Ecology Letters</i> , 2007, 10, 115-126.	6.4	92
43	Individual-Based Probabilistic Models of Adaptive Evolution and Various Scaling Approximations. <i>Progress in Probability</i> , 2007, , 75-113.	0.3	19
44	Unifying evolutionary dynamics: From individual stochastic processes to macroscopic models. <i>Theoretical Population Biology</i> , 2006, 69, 297-321.	1.1	347
45	Timescales of population rarity and commonness in random environments. <i>Theoretical Population Biology</i> , 2006, 69, 351-366.	1.1	5
46	Two major evolutionary lineages revealed by molecular phylogeny in the parthenogenetic collembola species <i>Folsomia candida</i> . <i>Pedobiologia</i> , 2006, 50, 95-104.	1.2	41
47	Coevolution of slow-fast populations: evolutionary sliding, evolutionary pseudo-equilibria and complex Red Queen dynamics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 983-990.	2.6	76
48	Effect of patch occupancy on immigration in the common lizard. <i>Journal of Animal Ecology</i> , 2005, 74, 241-249.	2.8	41
49	Functional response: rigorous estimation and sensitivity to genetic variation in prey. <i>Oikos</i> , 2005, 111, 479-487.	2.7	36
50	THE ANALYSIS OF REACTION NORMS FOR AGE AND SIZE AT MATURITY USING MATURATION RATE MODELS. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 500-506.	2.3	24
51	Juvenile growth and survival under dietary restriction: are males and females equal?. <i>Oikos</i> , 2005, 111, 368-376.	2.7	40
52	THE ANALYSIS OF REACTION NORMS FOR AGE AND SIZE AT MATURITY USING MATURATION RATE MODELS. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 500.	2.3	10
53	Adaptive Evolution of Social Traits: Origin, Trajectories, and Correlations of Altruism and Mobility. <i>American Naturalist</i> , 2005, 165, 206-224.	2.1	120
54	Sex ratio bias, male aggression, and population collapse in lizards. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18231-18236.	7.1	344

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55	Quantitative-Genetic Models and Changing Environments. , 2004, , 171-187.		26
56	Fixation of New Mutations in Small Populations. , 2004, , 155-170.		26
57	Adaptive Dynamics and Evolving Biodiversity. , 2004, , 188-224.		53
58	Genetic Structure in Heterogeneous Environments. , 2004, , 229-243.		5
59	Adaptive Responses to Landscape Disturbances: Theory. , 2004, , 265-283.		7
60	Coevolutionary Dynamics and the Conservation of Mutualisms. , 2004, , 305-326.		37
61	Conservation Implications of Niche Conservatism and Evolution in Heterogeneous Environments. , 2004, , 244-264.		45
62	The effect of autocorrelation in environmental variability on the persistence of populations: an experimental test. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 2143-2148.	2.6	50
63	Physical performance and darwinian fitness in lizards. Nature, 2004, 432, 502-505.	27.8	186
64	THE ADAPTIVE DYNAMICS OF ALTRUISM IN SPATIALLY HETEROGENEOUS POPULATIONS. Evolution; International Journal of Organic Evolution, 2003, 57, 1-17.	2.3	132
65	Conservation and control strategies for the wolf (<i>Canis lupus</i>) in western Europe based on demographic models. Comptes Rendus - Biologies, 2003, 326, 575-587.	0.2	33
66	Motherâ€™s offspring interactions affect natal dispersal in a lizard. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 1163-1169.	2.6	97
67	THE ADAPTIVE DYNAMICS OF ALTRUISM IN SPATIALLY HETEROGENEOUS POPULATIONS. Evolution; International Journal of Organic Evolution, 2003, 57, 1.	2.3	21
68	The Evolution of Dispersal under Demographic Stochasticity. American Naturalist, 2003, 162, 427-441.	2.1	93
69	ECOLOGICAL BISTABILITY AND EVOLUTIONARY REVERSALS UNDER ASYMMETRICAL COMPETITION. Evolution; International Journal of Organic Evolution, 2002, 56, 1081.	2.3	3
70	Cheating and the evolutionary stability of mutualisms. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 773-780.	2.6	234
71	Consequences of Plant-Herbivore Coevolution on the Dynamics and Functioning of Ecosystems. Journal of Theoretical Biology, 2002, 217, 369-381.	1.7	42
72	ECOLOGICAL BISTABILITY AND EVOLUTIONARY REVERSALS UNDER ASYMMETRICAL COMPETITION. Evolution; International Journal of Organic Evolution, 2002, 56, 1081-1090.	2.3	59

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73	Estimating effects of adult male mortality on grizzly bear population growth and persistence using matrix models. <i>Biological Conservation</i> , 2001, 98, 293-303.	4.1	61
74	On Mutualists and Exploiters: Plant–insect Coevolution in Pollinating Seed–parasite Systems. <i>Journal of Theoretical Biology</i> , 2001, 212, 373-389.	1.7	53
75	BIFURCATIONS ANALYSIS OF POPULATION INVASION: ON–OFF INTERMITTENCY AND BASIN RIDDLING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2000, 10, 443-452.	1.7	15
76	Evolving dispersal: where to go next?. <i>Trends in Ecology and Evolution</i> , 2000, 15, 5-7.	8.7	56
77	Predictability, chaos and coordination in bird vigilant behaviour. <i>Animal Behaviour</i> , 1999, 57, 497-500.	1.9	11
78	UNIVERSAL POWER LAWS GOVERN INTERMITTENT RARITY IN COMMUNITIES OF INTERACTING SPECIES. <i>Ecology</i> , 1999, 80, 1505-1521.	3.2	44
79	Universal Power Laws Govern Intermittent Rarity in Communities of Interacting Species. <i>Ecology</i> , 1999, 80, 1505.	3.2	6
80	Help and you shall be helped. <i>Nature</i> , 1998, 393, 517-519.	27.8	19
81	The Evolution of Cooperation in Spatially Heterogeneous Populations. <i>American Naturalist</i> , 1996, 147, 692-717.	2.1	60
82	Predictability and chaos in bird vigilant behaviour. <i>Animal Behaviour</i> , 1996, 52, 457-472.	1.9	27
83	Lyapunov Exponents and the Mathematics of Invasion in Oscillatory or Chaotic Populations. <i>Theoretical Population Biology</i> , 1995, 48, 126-171.	1.1	142
84	Invading wave of cooperation in a spatial iterated prisoner's dilemma. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1995, 259, 77-83.	2.6	36
85	Chaos and evolution. <i>Trends in Ecology and Evolution</i> , 1995, 10, 480-485.	8.7	62
86	Chaotic population dynamics can result from natural selection. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1993, 251, 33-38.	2.6	54
87	Evolutionarily stable age at first reproduction in a density-dependent model. <i>Journal of Theoretical Biology</i> , 1992, 157, 253-267.	1.7	24
88	How predictable is chaos?. <i>Nature</i> , 1992, 355, 25-26.	27.8	43
89	Observations préliminaires sur la morphologie de <i>Vipera aspis</i> (Linnaeus, 1758) dans le Sud-Est de la France. <i>Amphibia - Reptilia</i> , 1987, 8, 289-294.	0.5	2