

# 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  
g-index

95  
all docs

95  
docs citations

95  
times ranked

6213  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unifying evolutionary dynamics: From individual stochastic processes to macroscopic models. <i>Theoretical Population Biology</i> , 2006, 69, 297-321.	1.1	347
2	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
3	Inclusive fitness theory and eusociality. <i>Nature</i> , 2011, 471, E1-E4.	27.8	339
4	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
5	Cheating and the evolutionary stability of mutualisms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 773-780.	2.6	234
6	Physical performance and darwinian fitness in lizards. <i>Nature</i> , 2004, 432, 502-505.	27.8	186
7	Lyapunov Exponents and the Mathematics of Invasion in Oscillatory or Chaotic Populations. <i>Theoretical Population Biology</i> , 1995, 48, 126-171.	1.1	142
8	THE ADAPTIVE DYNAMICS OF ALTRUISM IN SPATIALLY HETEROGENEOUS POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1-17.	2.3	132
9	Adaptive Evolution of Social Traits: Origin, Trajectories, and Correlations of Altruism and Mobility. <i>American Naturalist</i> , 2005, 165, 206-224.	2.1	120
10	Climate warming, dispersal inhibition and extinction risk. <i>Global Change Biology</i> , 2008, 14, 461-469.	9.5	112
11	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
12	Mother-offspring interactions affect natal dispersal in a lizard. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1163-1169.	2.6	97
13	The Evolution of Dispersal under Demographic Stochasticity. <i>American Naturalist</i> , 2003, 162, 427-441.	2.1	93
14	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
15	From Individual Stochastic Processes to Macroscopic Models in Adaptive Evolution. <i>Stochastic Models</i> , 2008, 24, 2-44.	0.5	88
16	Direct and Indirect Ecosystem Effects of Evolutionary Adaptation in the Trinidadian Guppy ( <i>Poecilia reticulata</i> ). <i>Journal of Ecology</i> , 2009, 97, 100-108.	2.1	85
17	Bet Hedging via Seed Banking in Desert Evening Primroses ( <i>Oenothera</i> , Onagraceae): Demographic Evidence from Natural Populations. <i>American Naturalist</i> , 2007, 169, 184-194.	2.1	83
18	Widespread intraspecific organismal stoichiometry among populations of the Trinidadian guppy. <i>Functional Ecology</i> , 2012, 26, 666-676.	3.6	83

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19	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
20	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
21	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
22	Advancing the metabolic theory of biodiversity. <i>Ecology Letters</i> , 2009, 12, 1001-1015.	6.4	68
23	Eco“Evolutionary Dynamics of Mutualists and Exploiters. <i>American Naturalist</i> , 2009, 174, 780-794.	2.1	66
24	Chaos and evolution. <i>Trends in Ecology and Evolution</i> , 1995, 10, 480-485.	8.7	62
25	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
26	The Evolution of Cooperation in Spatially Heterogeneous Populations. <i>American Naturalist</i> , 1996, 147, 692-717.	2.1	60
27	ECOLOGICAL BISTABILITY AND EVOLUTIONARY REVERSALS UNDER ASYMMETRICAL COMPETITION. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1081-1090.	2.3	59
28	Evolving dispersal: where to go next?. <i>Trends in Ecology and Evolution</i> , 2000, 15, 5-7.	8.7	56
29	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
30	Clade diversification dynamics and the biotic and abiotic controls of speciation and extinction rates. <i>Nature Communications</i> , 2018, 9, 3013.	12.8	54
31	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
32	Adaptive Dynamics and Evolving Biodiversity. , 2004, , 188-224.		53
33	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
34	The effect of autocorrelation in environmental variability on the persistence of populations: an experimental test. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2143-2148.	2.6	50
35	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
36	Conservation Implications of Niche Conservatism and Evolution in Heterogeneous Environments. , 2004, , 244-264.		45

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37	UNIVERSAL POWER LAWS GOVERN INTERMITTENT RARITY IN COMMUNITIES OF INTERACTING SPECIES. <i>Ecology</i> , 1999, 80, 1505-1521.	3.2	44
38	Inclusive fitness in evolution. <i>Nature</i> , 2011, 471, E6-E8.	27.8	44
39	How predictable is chaos?. <i>Nature</i> , 1992, 355, 25-26.	27.8	43
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	Consequences of Plant-Herbivore Coevolution on the Dynamics and Functioning of Ecosystems. <i>Journal of Theoretical Biology</i> , 2002, 217, 369-381.	1.7	42
42	Effect of patch occupancy on immigration in the common lizard. <i>Journal of Animal Ecology</i> , 2005, 74, 241-249.	2.8	41
43	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
44	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
45	Juvenile growth and survival under dietary restriction: are males and females equal?. <i>Oikos</i> , 2005, 111, 368-376.	2.7	40
46	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
47	Coevolutionary Dynamics and the Conservation of Mutualisms. , 2004, , 305-326.		37
48	How Ecology and Landscape Dynamics Shape Phylogenetic Trees. <i>Systematic Biology</i> , 2015, 64, 590-607.	5.6	37
49	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
50	Functional response: rigorous estimation and sensitivity to genetic variation in prey. <i>Oikos</i> , 2005, 111, 479-487.	2.7	36
51	Conservation and control strategies for the wolf ( <i>Canis lupus</i> ) in western Europe based on demographic models. <i>Comptes Rendus - Biologies</i> , 2003, 326, 575-587.	0.2	33
52	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
53	Eco-evolutionary feedbacks between private and public goods: evidence from toxic algal blooms. <i>Ecology Letters</i> , 2016, 19, 81-97.	6.4	32
54	Local adaptation, dispersal evolution, and the spatial eco-evolutionary dynamics of invasion. <i>Ecology Letters</i> , 2019, 22, 767-777.	6.4	32

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55	Bayesian analysis of Enceladus's plume data to assess methanogenesis. <i>Nature Astronomy</i> , 2021, 5, 805-814.	10.1	29
56	Co-evolution of primitive methane-cycling ecosystems and early Earth's atmosphere and climate. <i>Nature Communications</i> , 2020, 11, 2705.	12.8	28
57	Predictability and chaos in bird vigilant behaviour. <i>Animal Behaviour</i> , 1996, 52, 457-472.	1.9	27
58	Quantitative-Genetic Models and Changing Environments. , 2004, , 171-187.		26
59	Fixation of New Mutations in Small Populations. , 2004, , 155-170.		26
60	Intermittent breeding and the dynamics of resource allocation to reproduction, growth and survival. <i>Functional Ecology</i> , 2013, 27, 173-183.	3.6	25
61	Evolutionarily stable age at first reproduction in a density-dependent model. <i>Journal of Theoretical Biology</i> , 1992, 157, 253-267.	1.7	24
62	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
63	THE ADAPTIVE DYNAMICS OF ALTRUISM IN SPATIALLY HETEROGENEOUS POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1.	2.3	21
64	Help and you shall be helped. <i>Nature</i> , 1998, 393, 517-519.	27.8	19
65	Individual-Based Probabilistic Models of Adaptive Evolution and Various Scaling Approximations. <i>Progress in Probability</i> , 2007, , 75-113.	0.3	19
66	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
67	Climate and Atmosphere Simulator for Experiments on Ecological Systems in Changing Environments. <i>Environmental Science &amp; Technology</i> , 2014, 48, 8744-8753.	10.0	18
68	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
69	Coevolutionary transitions from antagonism to mutualism explained by the Co-Opted Antagonist Hypothesis. <i>Nature Communications</i> , 2021, 12, 2867.	12.8	15
70	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
71	Predictability, chaos and coordination in bird vigilant behaviour. <i>Animal Behaviour</i> , 1999, 57, 497-500.	1.9	11
72	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

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73	Eco-Evolutionary Community Dynamics: Covariation between Diversity and Invasibility across Temperature Gradients. <i>American Naturalist</i> , 2012, 180, E110-E126.	2.1	9
74	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
75	Biotic soil-plant interaction processes explain most of hysteretic soil CO2 efflux response to temperature in cross-factorial mesocosm experiment. <i>Scientific Reports</i> , 2020, 10, 905.	3.3	9
76	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
77	Adaptive Responses to Landscape Disturbances: Theory. , 2004, , 265-283.		7
78	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
79	Topological acoustic sensing of spatial patterns of trees in a model forest landscape. <i>Ecological Modelling</i> , 2020, 419, 108964.	2.5	6
80	Universal Power Laws Govern Intermittent Rarity in Communities of Interacting Species. <i>Ecology</i> , 1999, 80, 1505.	3.2	6
81	Genetic Structure in Heterogeneous Environments. , 2004, , 229-243.		5
82	Timescales of population rarity and commonness in random environments. <i>Theoretical Population Biology</i> , 2006, 69, 351-366.	1.1	5
83	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
84	ECOLOGICAL BISTABILITY AND EVOLUTIONARY REVERSALS UNDER ASYMMETRICAL COMPETITION. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1081.	2.3	3
85	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
86	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
87	Ecological Models for Gene Therapy. II. Niche Construction, Nongenetic Inheritance, and Ecosystem Perturbations. <i>Biological Theory</i> , 2014, 9, 414-422.	1.5	1
88	Interactions among interactions: The dynamical consequences of antagonism between mutualists. <i>Journal of Theoretical Biology</i> , 2020, 501, 110334.	1.7	1
89	Chapitre 13. L'évolution de la coopération. , 2021, , 407-440.		0