

Robert A Desharnais

List of Publications by Year in descending order

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54
papers

2,350
citations

218677

26
h-index

206112

48
g-index

56
all docs

56
docs citations

56
times ranked

1716
citing authors

#	ARTICLE	IF	CITATIONS
1	Can noise induce chaos?. <i>Oikos</i> , 2003, 102, 329-339.	2.7	226
2	Experimentally induced transitions in the dynamic behaviour of insect populations. <i>Nature</i> , 1995, 375, 227-230.	27.8	215
3	Nonlinear Demographic Dynamics: Mathematical Models, Statistical Methods, and Biological Experiments. <i>Ecological Monographs</i> , 1995, 65, 261-282.	5.4	213
4	ESTIMATING CHAOS AND COMPLEX DYNAMICS IN AN INSECT POPULATION. <i>Ecological Monographs</i> , 2001, 71, 277-303.	5.4	184
5	Honest answers to embarrassing questions: Detecting cheating in the randomized response model.. <i>Psychological Methods</i> , 1998, 3, 160-168.	3.5	93
6	Lattice Effects Observed in Chaotic Dynamics of Experimental Populations. <i>Science</i> , 2001, 294, 602-605.	12.6	92
7	Moving toward an unstable equilibrium: saddle nodes in population systems. <i>Journal of Animal Ecology</i> , 1998, 67, 298-306.	2.8	91
8	Resonant Population Cycles in Temporally Fluctuating Habitats. <i>Bulletin of Mathematical Biology</i> , 1998, 60, 247-273.	1.9	80
9	Nonlinear Population Dynamics: Models, Experiments and Data. <i>Journal of Theoretical Biology</i> , 1998, 194, 1-9.	1.7	78
10	HISTORY AND CURRENT DEVELOPMENT OF A PARADIGM OF PREDATION IN ROCKY INTERTIDAL COMMUNITIES. <i>Ecology</i> , 2002, 83, 1521-1536.	3.2	73
11	Expansion of Paneth Cell Population in Response to Enteric Salmonella enterica Serovar Typhimurium Infection. <i>Infection and Immunity</i> , 2012, 80, 266-275.	2.2	58
12	Chaos and population control of insect outbreaks. <i>Ecology Letters</i> , 2001, 4, 229-235.	6.4	57
13	Stable Demographic Limit Cycles in Laboratory Populations of <i>Tribolium castaneum</i> . <i>Journal of Animal Ecology</i> , 1987, 56, 885.	2.8	55
14	Park's <i>Tribolium</i> competition experiments: a non-equilibrium species coexistence hypothesis. <i>Journal of Animal Ecology</i> , 2003, 72, 703-712.	2.8	55
15	Nonlinear Stochastic Population Dynamics: The Flour Beetle <i>Tribolium</i> as an Effective Tool of Discovery. <i>Advances in Ecological Research</i> , 2005, , 101-141.	2.7	49
16	Power spectra reveal the influence of stochasticity on nonlinear population dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18860-18865.	7.1	47
17	An interdisciplinary approach to understanding nonlinear ecological dynamics. <i>Ecological Modelling</i> , 1996, 92, 111-119.	2.5	46
18	Multiple Attractors, Saddles, and Population Dynamics in Periodic Habitats. <i>Bulletin of Mathematical Biology</i> , 1999, 61, 1121-1149.	1.9	45

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19	Quantitative in situ hybridization to measure single-cell changes in vasopressin and oxytocin mRNA levels after osmotic stimulation. <i>Cellular and Molecular Neurobiology</i> , 1990, 10, 59-71.	3.3	39
20	Complex equilibria in the maintenance of boundaries: experiments with mussel beds. <i>Ecology</i> , 2009, 90, 985-995.	3.2	39
21	Antimicrobial Lipids: Novel Innate Defense Molecules are Elevated in Sinus Secretions of Patients with Chronic Rhinosinusitis. <i>American Journal of Rhinology and Allergy</i> , 2010, 24, 99-104.	2.0	37
22	A chaotic attractor in ecology: theory and experimental data. <i>Chaos, Solitons and Fractals</i> , 2001, 12, 219-234.	5.1	36
23	Population Dynamics and the Tribolium Model: Genetics and Demography. <i>Monographs on Theoretical and Applied Genetics</i> , 1991, , .	0.2	36
24	The shifting balance of littoral predator-prey interaction in regimes of hydrodynamic stress. <i>Oecologia</i> , 2001, 128, 142-152.	2.0	32
25	Anatomy of a chaotic attractor: Subtle model-predicted patterns revealed in population data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 408-413.	7.1	32
26	Membrane-targeted synergistic activity of docosahexaenoic acid and lysozyme against <i>Pseudomonas aeruginosa</i> . <i>Biochemical Journal</i> , 2009, 419, 193-200.	3.7	29
27	Colour of environmental noise affects the nonlinear dynamics of cycling, stage-structured populations. <i>Ecology Letters</i> , 2008, 11, 820-830.	6.4	28
28	Experimental support of the scaling rule for demographic stochasticity. <i>Ecology Letters</i> , 2006, 9, 537-547.	6.4	26
29	Abrupt population changes along smooth environmental gradients. <i>Bulletin of Mathematical Biology</i> , 1996, 58, 907-922.	1.9	25
30	Basins of attraction: population dynamics with two stable 4-cycles. <i>Oikos</i> , 2002, 98, 17-24.	2.7	25
31	Explaining and predicting patterns in stochastic population systems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1549-1553.	2.6	21
32	Optimization of conditions for flow-through partial-filling affinity capillary electrophoresis to estimate binding constants of ligands to receptors. <i>Analytica Chimica Acta</i> , 2005, 540, 403-410.	5.4	19
33	Graphical and statistical approaches to data analysis for in situ hybridization. <i>Methods in Enzymology</i> , 1989, 168, 822-848.	1.0	18
34	The Approach to Equilibrium and the Steady-State Probability Distribution of Adult Numbers in <i>Tribolium brevicornis</i> . <i>American Naturalist</i> , 1982, 119, 102-111.	2.1	16
35	Temporal scale of environmental correlations affects ecological synchrony. <i>Ecology Letters</i> , 2018, 21, 1800-1811.	6.4	16
36	Mussel Bed Boundaries as Dynamic Equilibria: Thresholds, Phase Shifts, and Alternative States. <i>American Naturalist</i> , 2011, 178, 612-625.	2.1	15

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37	A matrix model for density-dependent selection in stage-classified populations, with application to pesticide resistance in <i>Tribolium</i> . <i>Ecological Modelling</i> , 2020, 416, 108875.	2.5	14
38	Landscape patterns in boundary intensity: a case study of mussel beds. <i>Landscape Ecology</i> , 2010, 25, 745-759.	4.2	12
39	Life not lived due to disequilibrium in heterogeneous age-structured populations. <i>Theoretical Population Biology</i> , 1986, 29, 385-406.	1.1	11
40	Cholesteryl Esters Are Elevated in the Lipid Fraction of Bronchoalveolar Lavage Fluid Collected from Pediatric Cystic Fibrosis Patients. <i>PLoS ONE</i> , 2015, 10, e0125326.	2.5	9
41	Species competition: uncertainty on a double invariant loop. <i>Journal of Difference Equations and Applications</i> , 2005, 11, 311-325.	1.1	8
42	Predator-prey dynamics of bald eagles and glaucous-winged gulls at Protection Island, Washington, USA. <i>Ecology and Evolution</i> , 2019, 9, 3850-3867.	1.9	8
43	NATURAL SELECTION AND DENSITY-DEPENDENT POPULATION GROWTH. <i>Genetics</i> , 1983, 105, 1029-1040.	2.9	6
44	Estimating Chaos and Complex Dynamics in an Insect Population. <i>Ecological Monographs</i> , 2001, 71, 277.	5.4	6
45	NATURAL SELECTION AND FITNESS ENTROPY IN A DENSITY-REGULATED POPULATION. <i>Genetics</i> , 1982, 101, 317-329.	2.9	6
46	Genetic analysis of a population of <i>Tribolium</i> . IX. Maximization of population size and the concept of a stochastic equilibrium. <i>Genome</i> , 1990, 33, 571-580.	2.0	5
47	Effects of Aerobic Exercise on Lipid-Effector Molecules of the Innate Immune Response. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 506-512.	0.4	5
48	The effect of the Safer at Home order on the frequency of DUI breath alcohol tests in Los Angeles County. <i>Journal of Forensic Sciences</i> , 2021, 66, 1550-1556.	1.6	4
49	Natural selection, fitness entropy, and the dynamics of coevolution. <i>Theoretical Population Biology</i> , 1986, 30, 309-340.	1.1	3
50	Abrupt population changes along smooth environmental gradients. <i>Bulletin of Mathematical Biology</i> , 1996, 58, 907-922.	1.9	3
51	Population Dynamics of <i>Tribolium</i> . , 1997, , 303-328.		3
52	Maintenance of genetic polymorphism under conditions of genotype-dependent growth and size-selective mortality. <i>Genome</i> , 1985, 27, 279-288.	0.7	1
53	Spatial Dynamics of a Benthic Community. , 2003, , 429-444.		0
54	Timescale analyses of fluctuations in coexisting populations of a native and invasive tree squirrel. <i>Ecology and Evolution</i> , 2022, 12, e8779.	1.9	0