# Robert A Desharnais

List of Publications by Year
in descending order



| 54 | 2,350 | 218677 | 206112 |
|---|---|---|---|
| papers | citations | 26 h-index | 48 g-index |

| 56 | 56 | 56 | 1716 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Timescale analyses of fluctuations in coexisting populations of a native and invasive tree squirrel. Ecology and Evolution, 2022, 12, e8779. | 1.9 | 0 |
| 2 | The effect of the Safer at Home order on the frequency of DUI breath alcohol tests in Los Angeles County. Journal of Forensic Sciences, 2021, 66, 1550-1556. | 1.6 | 4 |
| 3 | A matrix model for density-dependent selection in stage-classified populations, with application to pesticide resistance in Tribolium. Ecological Modelling, 2020, 416, 108875. | 2.5 | 14 |
| 4 | Predatorâ€“prey dynamics of bald eagles and glaucousâ€winged gulls at Protection Island, Washington, USA. Ecology and Evolution, 2019, 9, 3850-3867. | 1.9 | 8 |
| 5 | Temporal scale of environmental correlations affects ecological synchrony. Ecology Letters, 2018, 21, 1800-1811. | 6.4 | 16 |
| 6 | Cholesteryl Esters Are Elevated in the Lipid Fraction of Bronchoalveolar Lavage Fluid Collected from Pediatric Cystic Fibrosis Patients. PLoS ONE, 2015, 10, e0125326. | 2.5 | 9 |
| 7 | Effects of Aerobic Exercise on Lipid-Effector Molecules of the Innate Immune Response. Medicine and Science in Sports and Exercise, 2014, 46, 506-512. | 0.4 | 5 |
| 8 | Expansion of Paneth Cell Population in Response to Enteric Salmonella enterica Serovar Typhimurium Infection. Infection and Immunity, 2012, 80, 266-275. | 2.2 | 58 |
| 9 | Mussel Bed Boundaries as Dynamic Equilibria: Thresholds, Phase Shifts, and Alternative States. American Naturalist, 2011, 178, 612-625. | 2.1 | 15 |
| 10 | Antimicrobial Lipids: Novel Innate Defense Molecules are Elevated in Sinus Secretions of Patients with Chronic Rhinosinusitis. American Journal of Rhinology and Allergy, 2010, 24, 99-104. | 2.0 | 37 |
| 11 | Landscape patterns in boundary intensity: a case study of mussel beds. Landscape Ecology, 2010, 25, 745-759. | 4.2 | 12 |
| 12 | Complex equilibria in the maintenance of boundaries: experiments with mussel beds. Ecology, 2009, 90, 985-995. | 3.2 | 39 |
| 13 | Membrane-targeted synergistic activity of docosahexaenoic acid and lysozyme against Pseudomonas aeruginosa. Biochemical Journal, 2009, 419, 193-200. | 3.7 | 29 |
| 14 | Colour of environmental noise affects the nonlinear dynamics of cycling, stageâ€structured populations. Ecology Letters, 2008, 11, 820-830. | 6.4 | 28 |
| 15 | Experimental support of the scaling rule for demographic stochasticity. Ecology Letters, 2006, 9, 537-547. | 6.4 | 26 |
| 16 | Power spectra reveal the influence of stochasticity on nonlinear population dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18860-18865. | 7.1 | 47 |
| 17 | Optimization of conditions for flow-through partial-filling affinity capillary electrophoresis to estimate binding constants of ligands to receptors. Analytica Chimica Acta, 2005, 540, 403-410. | 5.4 | 19 |
| 18 | Nonlinear Stochastic Population Dynamics: The Flour Beetle Tribolium as an Effective Tool of Discovery. Advances in Ecological Research, 2005, , 101-141. | 2.7 | 49 |

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|---|---|---|---|
| 19 | Species competition: uncertainty on a double invariant loop. Journal of Difference Equations and Applications, 2005, 11, 311-325. | 1.1 | 8 |
| 20 | Anatomy of a chaotic attractor: Subtle model-predicted patterns revealed in population data. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 408-413. | 7.1 | 32 |
| 21 | Can noise induce chaos?. Oikos, 2003, 102, 329-339. | 2.7 | 226 |
| 22 | Park's Tribolium competition experiments: a non-equilibrium species coexistence hypothesis. Journal of Animal Ecology, 2003, 72, 703-712. | 2.8 | 55 |
| 23 | Explaining and predicting patterns in stochastic population systems. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 1549-1553. | 2.6 | 21 |
| 24 | Spatial Dynamics of a Benthic Community. , 2003, , 429-444. | | 0 |
| 25 | HISTORY AND CURRENT DEVELOPMENT OF A PARADIGM OF PREDATION IN ROCKY INTERTIDAL COMMUNITIES. Ecology, 2002, 83, 1521-1536. | 3.2 | 73 |
| 26 | Basins of attraction: population dynamics with two stable 4-cycles. Oikos, 2002, 98, 17-24. | 2.7 | 25 |
| 27 | The shifting balance of littoral predator-prey interaction in regimes of hydrodynamic stress. Oecologia, 2001, 128, 142-152. | 2.0 | 32 |
| 28 | Chaos and population control of insect outbreaks. Ecology Letters, 2001, 4, 229-235. | 6.4 | 57 |
| 29 | A chaotic attractor in ecology: theory and experimental data. Chaos, Solitons and Fractals, 2001, 12, 219-234. | 5.1 | 36 |
| 30 | ESTIMATING CHAOS AND COMPLEX DYNAMICS IN AN INSECT POPULATION. Ecological Monographs, 2001, 71, 277-303. | 5.4 | 184 |
| 31 | Lattice Effects Observed in Chaotic Dynamics of Experimental Populations. Science, 2001, 294, 602-605. | 12.6 | 92 |
| 32 | Estimating Chaos and Complex Dynamics in an Insect Population. Ecological Monographs, 2001, 71, 277. | 5.4 | 6 |
| 33 | Multiple Attractors, Saddles, and Population Dynamics in Periodic Habitats. Bulletin of Mathematical Biology, 1999, 61, 1121-1149. | 1.9 | 45 |
| 34 | Resonant Population Cycles in Temporally Fluctuating Habitats. Bulletin of Mathematical Biology, 1998, 60, 247-273. | 1.9 | 80 |
| 35 | Nonlinear Population Dynamics: Models, Experiments and Data. Journal of Theoretical Biology, 1998, 194, 1-9. | 1.7 | 78 |
| 36 | Moving toward an unstable equilibrium: saddle nodes in population systems. Journal of Animal Ecology, 1998, 67, 298-306. | 2.8 | 91 |

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|---|---|---|---|
| 37 | Honest answers to embarrassing questions: Detecting cheating in the randomized response model.. Psychological Methods, 1998, 3, 160-168. | 3.5 | 93 |
| 38 | Population Dynamics of Tribolium. , 1997, , 303-328. | | 3 |
| 39 | An interdisciplinary approach to understanding nonlinear ecological dynamics. Ecological Modelling, 1996, 92, 111-119. | 2.5 | 46 |
| 40 | Abrupt population changes along smooth environmental gradients. Bulletin of Mathematical Biology, 1996, 58, 907-922. | 1.9 | 25 |
| 41 | Abrupt population changes along smooth environmental gradients. Bulletin of Mathematical Biology, 1996, 58, 907-922. | 1.9 | 3 |
| 42 | Experimentally induced transitions in the dynamic behaviour of insect populations. Nature, 1995, 375, 227-230. | 27.8 | 215 |
| 43 | Nonlinear Demographic Dynamics: Mathematical Models, Statistical Methods, and Biological Experiments. Ecological Monographs, 1995, 65, 261-282. | 5.4 | 213 |
| 44 | Population Dynamics and the Tribolium Model: Genetics and Demography. Monographs on Theoretical and Applied Genetics, 1991, , . | 0.2 | 36 |
| 45 | Quantitativein situ hybridization to measure single-cell changes in vasopressin and oxytocin mRNA levels after osmotic stimulation. Cellular and Molecular Neurobiology, 1990, 10, 59-71. | 3.3 | 39 |
| 46 | Genetic analysis of a population of Tribolium. IX. Maximization of population size and the concept of a stochastic equilibrium. Genome, 1990, 33, 571-580. | 2.0 | 5 |
| 47 | Graphical and statistical approaches to data analysis for in situ hybridization. Methods in Enzymology, 1989, 168, 822-848. | 1.0 | 18 |
| 48 | Stable Demographic Limit Cycles in Laboratory Populations of Tribolium castaneum. Journal of Animal Ecology, 1987, 56, 885. | 2.8 | 55 |
| 49 | Life not lived due to disequilibrium in heterogeneous age-structured populations. Theoretical Population Biology, 1986, 29, 385-406. | 1.1 | 11 |
| 50 | Natural selection, fitness entropy, and the dynamics of coevolution. Theoretical Population Biology, 1986, 30, 309-340. | 1.1 | 3 |
| 51 | Maintenance of genetic polymorphism under conditions of genotype-dependent growth and size-selective mortality. Genome, 1985, 27, 279-288. | 0.7 | 1 |
| 52 | NATURAL SELECTION AND DENSITY-DEPENDENT POPULATION GROWTH. Genetics, 1983, 105, 1029-1040. | 2.9 | 6 |
| 53 | The Approach to Equilibrium and the Steady-State Probability Distribution of Adult Numbers in Tribolium brevicornis. American Naturalist, 1982, 119, 102-111. | 2.1 | 16 |
| 54 | NATURAL SELECTION AND FITNESS ENTROPY IN A DENSITY-REGULATED POPULATION. Genetics, 1982, 101, 317-329. | 2.9 | 6 |