

# Charles Patrick Doncaster

## List of Publications by Year in descending order

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133  
papers

5,074  
citations

101543

36  
h-index

106344

65  
g-index

145  
all docs

145  
docs citations

145  
times ranked

6214  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of chironomid community structure during historic climatic and environmental change in subarctic Alaska. <i>Limnology and Oceanography</i> , 2022, 67, .	3.1	5
2	Reconstruction of Ecological Transitions in a Temperate Shallow Lake of the Middle Yangtze River Basin in the Last Century. <i>Water (Switzerland)</i> , 2022, 14, 1136.	2.7	2
3	Automated detection of gunshots in tropical forests using convolutional neural networks. <i>Ecological Indicators</i> , 2022, 141, 109128.	6.3	10
4	Implications of scale dependence for cross-study syntheses of biodiversity differences. <i>Ecology Letters</i> , 2021, 24, 374-390.	6.4	29
5	Late Quaternary chironomid community structure shaped by rate and magnitude of climate change. <i>Journal of Quaternary Science</i> , 2021, 36, 360-376.	2.1	7
6	Broad-scale patterns of geographic avoidance between species emerge in the absence of fine-scale mechanisms of coexistence. <i>Diversity and Distributions</i> , 2021, 27, 1606-1618.	4.1	10
7	Vital rate estimates for the common eider <i>Somateria mollissima</i> , a data-rich exemplar of the seabird tribe. <i>Ecological Solutions and Evidence</i> , 2021, 2, e12108.	2.0	1
8	Trophic resource partitioning drives fine-scale coexistence in cryptic bat species. <i>Ecology and Evolution</i> , 2020, 10, 14122-14136.	1.9	14
9	Metrics of structural change as indicators of chironomid community stability in high latitude lakes. <i>Quaternary Science Reviews</i> , 2020, 249, 106594.	3.0	13
10	Interannual stability of phytoplankton community composition in the North-East Atlantic. <i>Marine Ecology - Progress Series</i> , 2020, 655, 43-57.	1.9	7
11	Jaguar ( <i>Panthera onca</i> ) density and tenure in a critical biological corridor. <i>Journal of Mammalogy</i> , 2020, 101, 1622-1637.	1.3	9
12	AudioMoth: A low-cost acoustic device for monitoring biodiversity and the environment. <i>HardwareX</i> , 2019, 6, e00073.	2.2	103
13	Network parameters quantify loss of assemblage structure in human-impacted lake ecosystems. <i>Global Change Biology</i> , 2019, 25, 3871-3882.	9.5	30
14	Leveraging conservation action with open-source hardware. <i>Conservation Letters</i> , 2019, 12, e12661.	5.7	14
15	Ecology of a versatile canid in the Neotropics: gray foxes ( <i>Urocyon cinereoargenteus</i> ) in Belize, Central America. <i>Mammal Research</i> , 2019, 64, 319-332.	1.3	6
16	Deploying Acoustic Detection Algorithms on Low-Cost, Open-Source Acoustic Sensors for Environmental Monitoring. <i>Sensors</i> , 2019, 19, 553.	3.8	42
17	Meta-analysis of management effects on biodiversity in plantation and secondary forests of Japan. <i>Conservation Science and Practice</i> , 2019, 1, e14.	2.0	19
18	Optimization of sensor deployment for acoustic detection and localization in terrestrial environments. <i>Remote Sensing in Ecology and Conservation</i> , 2019, 5, 180-192.	4.3	11

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19	Microbial epidemiology and carriage studies for the evaluation of vaccines. <i>Journal of Medical Microbiology</i> , 2019, 68, 1408-1418.	1.8	4
20	Borrowing from Peter to pay Paul: managing threatened predators of endangered and declining prey species. <i>PeerJ</i> , 2019, 7, e7916.	2.0	14
21	Spatial and temporal interactions of free-ranging pacas ( <i>Cuniculus paca</i> ). <i>Mammal Research</i> , 2018, 63, 161-172.	1.3	6
22	Correction for bias in meta-analysis of little-replicated studies. <i>Methods in Ecology and Evolution</i> , 2018, 9, 634-644.	5.2	29
23	AudioMoth: Evaluation of a smart open acoustic device for monitoring biodiversity and the environment. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1199-1211.	5.2	256
24	Do wildlife corridors link or extend habitat? Insights from elephant use of a Kenyan wildlife corridor. <i>African Journal of Ecology</i> , 2018, 56, 860-871.	0.9	14
25	Ecology and diversity in upper respiratory tract microbial population structures from a cross-sectional community swabbing study. <i>Journal of Medical Microbiology</i> , 2018, 67, 1096-1108.	1.8	5
26	Using Adaptation Insurance to Incentivize Climate-change Mitigation. <i>Ecological Economics</i> , 2017, 135, 246-258.	5.7	5
27	Use of meta-analysis in forest biodiversity research: key challenges and considerations. <i>Forest Ecology and Management</i> , 2017, 400, 429-437.	3.2	37
28	Pneumococcal conjugate vaccine implementation in middle-income countries. <i>Pneumonia (Nathan Qld) Tj ETQq0 0,0,rgBT /Overlock 10</i>	6.1	28
29	The influence of simulated exploitation on <i>Patella vulgata</i> populations: protandric sex change is size-dependent. <i>Ecology and Evolution</i> , 2016, 6, 514-531.	1.9	16
30	Early warning of critical transitions in biodiversity from compositional disorder. <i>Ecology</i> , 2016, 97, 3079-3090.	3.2	43
31	Drivers of the composition and diversity of carabid functional traits in UK coniferous plantations. <i>Forest Ecology and Management</i> , 2016, 359, 300-308.	3.2	35
32	Wild meat: a shared resource amongst people and predators. <i>Oryx</i> , 2016, 50, 63-75.	1.0	20
33	Similar biodiversity of ectomycorrhizal fungi in set-aside plantations and ancient old-growth broadleaved forests. <i>Biological Conservation</i> , 2016, 194, 71-79.	4.1	34
34	Broad-scale patterns of sex ratios in <i>Patella</i> spp.: a comparison of range edge and central range populations in the British Isles and Portugal. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2015, 95, 1141-1153.	0.8	13
35	What can ecosystems learn? Expanding evolutionary ecology with learning theory. <i>Biology Direct</i> , 2015, 10, 69.	4.6	49
36	A meta-analysis of functional group responses to forest recovery outside of the tropics. <i>Conservation Biology</i> , 2015, 29, 1695-1703.	4.7	59

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37	Ecosystems: The Rocky Road to Regime-Shift Indicators. <i>Current Biology</i> , 2015, 25, R666-R669.	3.9	7
38	A spatially explicit agent-based model of the interactions between jaguar populations and their habitats. <i>Ecological Modelling</i> , 2015, 306, 268-277.	2.5	28
39	Effects of simulated human exploitation of a key grazer, <i>Patella vulgata</i> , on rocky shore assemblages. <i>Marine Ecology - Progress Series</i> , 2015, 533, 163-176.	1.9	8
40	Prospective evaluation of designs for analysis of variance without knowledge of effect sizes. <i>Environmental and Ecological Statistics</i> , 2014, 21, 239-261.	3.5	1
41	Safe and just operating spaces for regional social-ecological systems. <i>Global Environmental Change</i> , 2014, 28, 227-238.	7.8	311
42	Impacts of Removing Badgers on Localised Counts of Hedgehogs. <i>PLoS ONE</i> , 2014, 9, e95477.	2.5	34
43	Manipulated into giving: when parasitism drives apparent or incidental altruism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130108.	2.6	10
44	Evaluating ecosystem processes in willow short rotation coppice bioenergy plantations. <i>GCB Bioenergy</i> , 2013, 5, 257-266.	5.6	36
45	Competitive environments sustain costly altruism with negligible assortment of interactions. <i>Scientific Reports</i> , 2013, 3, 2836.	3.3	1
46	Over-representation of bird prey in pellets of South Polar Skuas. <i>Journal of Ornithology</i> , 2012, 153, 979-983.	1.1	6
47	Patchiness in resource distribution mitigates habitat loss: insights from high-shore grazers. <i>Ecosphere</i> , 2011, 2, art60.	2.2	10
48	Jaguar and puma activity patterns in relation to their main prey. <i>Mammalian Biology</i> , 2011, 76, 320-324.	1.5	145
49	Heterogeneous capture rates in low density populations and consequences for capture-recapture analysis of camera-trap data. <i>Population Ecology</i> , 2011, 53, 253-259.	1.2	42
50	Potential benefits of commercial willow Short Rotation Coppice (SRC) for farm-scale plant and invertebrate communities in the agri-environment. <i>Biomass and Bioenergy</i> , 2011, 35, 325-336.	5.7	79
51	Food habits of sympatric jaguars and pumas across a gradient of human disturbance. <i>Journal of Zoology</i> , 2010, 280, 309-318.	1.7	93
52	Differential Use of Trails by Forest Mammals and the Implications for Camera-Trap Studies: A Case Study from Belize. <i>Biotropica</i> , 2010, 42, 126-133.	1.6	180
53	Habitat Use by Sympatric Jaguars and Pumas Across a Gradient of Human Disturbance in Belize. <i>Biotropica</i> , 2010, 42, 724-731.	1.6	84
54	Sample-size effects on diet analysis from scats of jaguars and pumas. <i>Mammalia</i> , 2010, 74, 317-321.	0.7	11

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55	Scrape-marking behavior of jaguars ( <i>Panthera onca</i> ) and pumas ( <i>Puma concolor</i> ). <i>Journal of Mammalogy</i> , 2010, 91, 1225-1234.	1.3	40
56	Past and present grazing boosts the photo-autotrophic biomass of biofilms. <i>Marine Ecology - Progress Series</i> , 2010, 401, 101-111.	1.9	37
57	Ecological Equivalence: A Realistic Assumption for Niche Theory as a Testable Alternative to Neutral Theory. <i>PLoS ONE</i> , 2009, 4, e7460.	2.5	22
58	Distinguishing Between Interference and Exploitation Competition for Shelter in a Mobile Fish Population. <i>Environmental Modeling and Assessment</i> , 2009, 14, 555-562.	2.2	14
59	Impact of egg harvesting on breeding success of black-headed gulls, <i>Larus ridibundus</i> . <i>Acta Oecologica</i> , 2009, 35, 83-93.	1.1	2
60	Responses of small mammals to Red fox ( <i>Vulpes vulpes</i> ) odour. <i>Journal of Zoology</i> , 2009, 204, 521-531.	1.7	122
61	Spatial and Temporal Interactions of Sympatric Jaguars ( <i>Panthera onca</i> ) and Pumas ( <i>Puma</i> )	1.3	135
62	Invasion dynamics of an introduced squirrel in Argentina. <i>Ecography</i> , 2008, 31, 211-220.	4.5	31
63	Non-linear density dependence in time series is not evidence of non-logistic growth. <i>Theoretical Population Biology</i> , 2008, 73, 483-489.	1.1	14
64	Invasion dynamics of an introduced squirrel in Argentina. <i>Ecography</i> , 2008, .	4.5	2
65	Density Dependence Triggers Runaway Selection of Reduced Senescence. <i>PLoS Computational Biology</i> , 2007, 3, e256.	3.2	18
66	Structural Equation Modeling and Natural Systems. <i>Fish and Fisheries</i> , 2007, 8, 368-369.	5.3	21
67	Evaluating least-cost model predictions with empirical dispersal data: A case-study using radiotracking data of hedgehogs ( <i>Erinaceus europaeus</i> ). <i>Ecological Modelling</i> , 2007, 209, 314-322.	2.5	108
68	Mechanisms of density dependence in stream fish: exploitation competition for food reduces growth of adult European bullheads ( <i>Cottus gobio</i> ). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 597-606.	1.4	20
69	Introduction to Population Ecology BY LARRY L. ROCKWOOD xi + 339 pp., 119 figs, 37 tables, 24 Å– 17 Å– 1.5 cm, ISBN 1 4051 3263 9 paperback, GB£ 27.99, Oxford, UK: Blackwell Publishing, 2006. <i>Environmental Conservation</i> , 2006, 33, 368-368.	1.3	0
70	Abundance of hedgehogs ( <i>Erinaceus europaeus</i> ) in relation to the density and distribution of badgers ( <i>Meles meles</i> ). <i>Journal of Zoology</i> , 2006, 269, 349-356.	1.7	74
71	Comment on "On the Regulation of Populations of Mammals, Birds, Fish, and Insects" III. <i>Science</i> , 2006, 311, 1100.3-1100.	12.6	18
72	Model of microtine cycles caused by lethal toxins in non-preferred food plants. <i>Journal of Theoretical Biology</i> , 2005, 234, 593-604.	1.7	11

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73	Size-dependent microhabitat use and intraspecific competition in <i>Cottus gobio</i> . <i>Journal of Fish Biology</i> , 2005, 67, 428-443.	1.6	61
74	Resource competition between genetically varied and genetically uniform populations of <i>Daphnia pulex</i> (Leydig): does sexual reproduction confer a short-term ecological advantage?. <i>Biological Journal of the Linnean Society</i> , 2005, 85, 111-123.	1.6	22
75	Outcomes of reciprocal invasions between genetically diverse and genetically uniform populations of <i>Daphnia obtusa</i> (Kurz). <i>Oecologia</i> , 2005, 143, 527-536.	2.0	26
76	Stomatal conductance and not stomatal density determines the long-term reduction in leaf transpiration of poplar in elevated CO <sub>2</sub> . <i>Oecologia</i> , 2005, 143, 652-660.	2.0	80
77	The accumulation of deleterious mutations within the frozen niche variation hypothesis. <i>Journal of Evolutionary Biology</i> , 2004, 17, 651-662.	1.7	33
78	Population models of sperm-dependent parthenogenesis. <i>Journal of Theoretical Biology</i> , 2004, 229, 559-572.	1.7	37
79	Consequences for predators of rescue and Allee effects on prey. <i>Ecological Modelling</i> , 2003, 162, 233-245.	2.5	67
80	Population structure of coypus ( <i>Myocastor coypus</i> ) in their region of origin and comparison with introduced populations. <i>Journal of Zoology</i> , 2003, 261, 265-272.	1.7	31
81	Dynamics of regional coexistence for more or less equal competitors. <i>Journal of Animal Ecology</i> , 2003, 72, 116-126.	2.8	17
82	Population consequences of mutual attraction between settling and adult barnacles. <i>Journal of Animal Ecology</i> , 2003, 72, 941-952.	2.8	53
83	Evolution of indefinite generation lengths. <i>Biological Journal of the Linnean Society</i> , 2003, 80, 269-280.	1.6	4
84	A Lotka–Volterra Model of Coexistence between a Sexual Population and Multiple Asexual Clones. <i>Journal of Theoretical Biology</i> , 2002, 217, 535-545.	1.7	30
85	Roads as barriers to movement for hedgehogs. <i>Functional Ecology</i> , 2002, 16, 504-509.	3.6	160
86	What determines territory configurations of badgers?. <i>Oikos</i> , 2001, 93, 497-498.	2.7	6
87	Field test for environmental correlates of dispersal in hedgehogs <i>Erinaceus europaeus</i> . <i>Journal of Animal Ecology</i> , 2001, 70, 33-46.	2.8	21
88	Field test for environmental correlates of dispersal in hedgehogs <i>Erinaceus europaeus</i> . <i>Journal of Animal Ecology</i> , 2001, 70, 33-46.	2.8	65
89	Healthy wrinkles for population dynamics: unevenly spread resources can support more users. <i>Journal of Animal Ecology</i> , 2001, 70, 91-100.	2.8	10
90	Five new polymorphic microsatellite loci in the European hedgehog <i>Erinaceus europaeus</i> . <i>Molecular Ecology</i> , 2000, 9, 1949-1951.	3.9	12

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91	Extension of ideal free resource use to breeding populations and metapopulations. <i>Oikos</i> , 2000, 89, 24-36.	2.7	17
92	The ecological cost of sex. <i>Nature</i> , 2000, 404, 281-285.	27.8	140
93	Density dependence in resource exploitation: empirical test of Levins' metapopulation model. <i>Ecology Letters</i> , 1999, 2, 44-51.	6.4	11
94	A useful phenomenological difference between exploitation and interference in the distribution of ideal free predators. <i>Journal of Animal Ecology</i> , 1999, 68, 836-838.	2.8	7
95	Lethal Toxins in Non-preferred Foods: How Plant Chemical Defences Can Drive Microtine Cycles. <i>Journal of Theoretical Biology</i> , 1999, 199, 63-85.	1.7	20
96	Influences of hedgerow intersections and gaps on the movement of carabid beetles. <i>Bulletin of Entomological Research</i> , 1999, 89, 523-531.	1.0	45
97	Balanced Dispersal Between Spatially Varying Local Populations: An Alternative To The Source-Sink Model. <i>American Naturalist</i> , 1997, 150, 425-445.	2.1	158
98	Activity patterns and interactions of red foxes ( <i>Vulpes vulpes</i> ) in Oxford city. <i>Journal of Zoology</i> , 1997, 241, 73-87.	1.7	106
99	Responses of foraging hedgehogs to badger odour. <i>Animal Behaviour</i> , 1997, 53, 709-720.	1.9	65
100	Intraspecific Variation in Movement Behaviour of Foxes ( <i>Vulpes vulpes</i> ): A Reply to White, Saunders & Harris. <i>Journal of Animal Ecology</i> , 1996, 65, 126.	2.8	10
101	Physiological Response of the European Hedgehog to Predator and Nonpredator Odour. <i>Physiology and Behavior</i> , 1996, 60, 1469-1472.	2.1	30
102	Determining Minimum Habitat Requirements in Theory and Practice. <i>Oikos</i> , 1996, 75, 335.	2.7	32
103	Hedgehogs. <i>Journal of Animal Ecology</i> , 1995, 64, 148.	2.8	0
104	Factors Regulating Local Variations in Abundance: Field Tests on Hedgehogs, <i>Erinaceus europaeus</i> . <i>Oikos</i> , 1994, 69, 182.	2.7	60
105	Ranging behaviour and activity patterns of two sympatric peccaries, <i>Catagonus wagneri</i> and <i>Tayassu tajacu</i> , in the Paraguayan Chaco. <i>Mammalia</i> , 1994, 58, .	0.7	31
106	The Mink. <i>Journal of Animal Ecology</i> , 1994, 63, 496.	2.8	0
107	The wider countryside-principles underlying the responses of mammals to heterogeneous environments. <i>Mammal Review</i> , 1993, 23, 113-120.	4.8	8
108	Ranging Behavior and Population Dynamics of the Chacoan Peccary, <i>Catagonus wagneri</i> . <i>Journal of Mammalogy</i> , 1993, 74, 443-454.	1.3	24

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109	Den Site Can Determine Shape and Size of Badger Territories: Implications for Group-Living. <i>Oikos</i> , 1993, 66, 88.	2.7	153
110	Indirect calorimetry measurements of behavioral thermoregulation in a semiaquatic social rodent, <i>Myocastor coypus</i> . <i>Canadian Journal of Zoology</i> , 1992, 70, 907-911.	1.0	11
111	Optimum group size for defending heterogenous distributions of resources: A model applied to red foxes, <i>Vulpes vulpes</i> , in Oxford city. <i>Journal of Theoretical Biology</i> , 1992, 159, 189-198.	1.7	18
112	Drifting Territoriality in the Red Fox <i>Vulpes vulpes</i> . <i>Journal of Animal Ecology</i> , 1991, 60, 423.	2.8	157
113	Response by coypus to catastrophic events of cold and flooding. <i>Ecography</i> , 1990, 13, 98-104.	4.5	13
114	Non-parametric estimates of interaction from radio-tracking data. <i>Journal of Theoretical Biology</i> , 1990, 143, 431-443.	1.7	128
115	Feeding Ecology of Red Foxes ( <i>Vulpes vulpes</i> ) in the City of Oxford, England. <i>Journal of Mammalogy</i> , 1990, 71, 188-194.	1.3	141
116	Annual cycle of a coypu ( <i>myocastor coypus</i> ) population: male and female strategies. <i>Journal of Zoology</i> , 1989, 217, 227-240.	1.7	45
117	The Spatial Distribution of Ants' Nests on Ramsey Island, South Wales. <i>Journal of Animal Ecology</i> , 1981, 50, 195.	2.8	33
118	Nested designs. , 0, , 67-75.		0
119	Split-plot designs. , 0, , 141-178.		0
120	Repeated-measures designs. , 0, , 179-228.		2
121	One-factor designs. , 0, , 61-66.		0
122	Troubleshooting problems during analysis. , 0, , 264-270.		0
123	Introduction to model structures. , 0, , 42-60.		0
124	Fully replicated factorial designs. , 0, , 76-114.		0
125	Choosing experimental designs. , 0, , 248-257.		0
126	How to request models in a statistics package. , 0, , 258-259.		0



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127	Randomised-block designs. , 0, , 115-140.		0
128	Unreplicated designs. , 0, , 229-236.		0
129	Best practice in presentation of the design. , 0, , 260-263.		0
130	Ranging behavior and habitat selection of pacas (<i>Cuniculus paca</i>) in central Belize. Journal of Mammalogy, 0, , gyw179.	1.3	3
131	Meta-analysis of management effects on biodiversity in plantation and secondary forests of Japan. Conservation Science and Practice, 0, , e14.	2.0	2
132	Multiple Life-History Stage Competition and its Effect on Coexistence. , 0, , .		1
133	Detecting regime shifts in artificial ecosystems. , 0, , .		1