

Charles Patrick Doncaster

List of Publications by Year in descending order

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133
papers

5,074
citations

101384

36
h-index

106150

65
g-index

145
all docs

145
docs citations

145
times ranked

6214
citing authors

#	ARTICLE	IF	CITATIONS
1	Safe and just operating spaces for regional social-ecological systems. <i>Global Environmental Change</i> , 2014, 28, 227-238.	3.6	311
2	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.	2.2	256
3	Differential Use of Trails by Forest Mammals and the Implications for Cameraâ€Trap Studies: A Case Study from Belize. <i>Biotropica</i> , 2010, 42, 126-133.	0.8	180
4	Roads as barriers to movement for hedgehogs. <i>Functional Ecology</i> , 2002, 16, 504-509.	1.7	160
5	Balanced Dispersal Between Spatially Varying Local Populations: An Alternative To The Sourceâ€Sink Model. <i>American Naturalist</i> , 1997, 150, 425-445.	1.0	158
6	Drifting Territoriality in the Red Fox <i>Vulpes vulpes</i> . <i>Journal of Animal Ecology</i> , 1991, 60, 423.	1.3	157
7	Den Site Can Determine Shape and Size of Badger Territories: Implications for Group-Living. <i>Oikos</i> , 1993, 66, 88.	1.2	153
8	Jaguar and puma activity patterns in relation to their main prey. <i>Mammalian Biology</i> , 2011, 76, 320-324.	0.8	145
9	Feeding Ecology of Red Foxes (<i>Vulpes vulpes</i>) in the City of Oxford, England. <i>Journal of Mammalogy</i> , 1990, 71, 188-194.	0.6	141
10	The ecological cost of sex. <i>Nature</i> , 2000, 404, 281-285.	13.7	140
11	Spatial and Temporal Interactions of Sympatric Jaguars (<i>Panthera onca</i>) and Pumas (<i>Puma</i>) Tj ETQq1 1 0.784314 rgBT /Overlo 0.6 135	0.6	135
12	Non-parametric estimates of interaction from radio-tracking data. <i>Journal of Theoretical Biology</i> , 1990, 143, 431-443.	0.8	128
13	Responses of small mammals to Red fox (<i>Vulpes vulpes</i>) odour. <i>Journal of Zoology</i> , 2009, 204, 521-531.	0.8	122
14	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.	1.2	108
15	Activity patterns and interactions of red foxes (<i>Vulpes vulpes</i>) in Oxford city. <i>Journal of Zoology</i> , 1997, 241, 73-87.	0.8	106
16	AudioMoth: A low-cost acoustic device for monitoring biodiversity and the environment. <i>HardwareX</i> , 2019, 6, e00073.	1.1	103
17	Food habits of sympatric jaguars and pumas across a gradient of human disturbance. <i>Journal of Zoology</i> , 2010, 280, 309-318.	0.8	93
18	Habitat Use by Sympatric Jaguars and Pumas Across a Gradient of Human Disturbance in Belize. <i>Biotropica</i> , 2010, 42, 724-731.	0.8	84

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19	Stomatal conductance and not stomatal density determines the long-term reduction in leaf transpiration of poplar in elevated CO ₂ . <i>Oecologia</i> , 2005, 143, 652-660.	0.9	80
20	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.	2.9	79
21	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.	0.8	74
22	Consequences for predators of rescue and Allee effects on prey. <i>Ecological Modelling</i> , 2003, 162, 233-245.	1.2	67
23	Responses of foraging hedgehogs to badger odour. <i>Animal Behaviour</i> , 1997, 53, 709-720.	0.8	65
24	Field test for environmental correlates of dispersal in hedgehogs <i>Erinaceus europaeus</i> . <i>Journal of Animal Ecology</i> , 2001, 70, 33-46.	1.3	65
25	Size-dependent microhabitat use and intraspecific competition in <i>Cottus gobio</i> . <i>Journal of Fish Biology</i> , 2005, 67, 428-443.	0.7	61
26	Factors Regulating Local Variations in Abundance: Field Tests on Hedgehogs, <i>Erinaceus europaeus</i> . <i>Oikos</i> , 1994, 69, 182.	1.2	60
27	A meta-analysis of functional group responses to forest recovery outside of the tropics. <i>Conservation Biology</i> , 2015, 29, 1695-1703.	2.4	59
28	Population consequences of mutual attraction between settling and adult barnacles. <i>Journal of Animal Ecology</i> , 2003, 72, 941-952.	1.3	53
29	What can ecosystems learn? Expanding evolutionary ecology with learning theory. <i>Biology Direct</i> , 2015, 10, 69.	1.9	49
30	Annual cycle of a coypu (<i>myocastor coypus</i>) population: male and female strategies. <i>Journal of Zoology</i> , 1989, 217, 227-240.	0.8	45
31	Influences of hedgerow intersections and gaps on the movement of carabid beetles. <i>Bulletin of Entomological Research</i> , 1999, 89, 523-531.	0.5	45
32	Early warning of critical transitions in biodiversity from compositional disorder. <i>Ecology</i> , 2016, 97, 3079-3090.	1.5	43
33	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.	0.7	42
34	Deploying Acoustic Detection Algorithms on Low-Cost, Open-Source Acoustic Sensors for Environmental Monitoring. <i>Sensors</i> , 2019, 19, 553.	2.1	42
35	Scrape-marking behavior of jaguars (<i>Panthera onca</i>) and pumas (<i>Puma concolor</i>). <i>Journal of Mammalogy</i> , 2010, 91, 1225-1234.	0.6	40
36	Population models of sperm-dependent parthenogenesis. <i>Journal of Theoretical Biology</i> , 2004, 229, 559-572.	0.8	37

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37	Use of meta-analysis in forest biodiversity research: key challenges and considerations. <i>Forest Ecology and Management</i> , 2017, 400, 429-437.	1.4	37
38	Past and present grazing boosts the photo-autotrophic biomass of biofilms. <i>Marine Ecology - Progress Series</i> , 2010, 401, 101-111.	0.9	37
39	Evaluating ecosystem processes in willow short rotation coppice bioenergy plantations. <i>GCB Bioenergy</i> , 2013, 5, 257-266.	2.5	36
40	Drivers of the composition and diversity of carabid functional traits in UK coniferous plantations. <i>Forest Ecology and Management</i> , 2016, 359, 300-308.	1.4	35
41	Similar biodiversity of ectomycorrhizal fungi in set-aside plantations and ancient old-growth broadleaved forests. <i>Biological Conservation</i> , 2016, 194, 71-79.	1.9	34
42	Impacts of Removing Badgers on Localised Counts of Hedgehogs. <i>PLoS ONE</i> , 2014, 9, e95477.	1.1	34
43	The Spatial Distribution of Ants' Nests on Ramsey Island, South Wales. <i>Journal of Animal Ecology</i> , 1981, 50, 195.	1.3	33
44	The accumulation of deleterious mutations within the frozen niche variation hypothesis. <i>Journal of Evolutionary Biology</i> , 2004, 17, 651-662.	0.8	33
45	Determining Minimum Habitat Requirements in Theory and Practice. <i>Oikos</i> , 1996, 75, 335.	1.2	32
46	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, .	0.3	31
47	Population structure of <i>coypus</i> (<i>Myocastor coypus</i>) in their region of origin and comparison with introduced populations. <i>Journal of Zoology</i> , 2003, 261, 265-272.	0.8	31
48	Invasion dynamics of an introduced squirrel in Argentina. <i>Ecography</i> , 2008, 31, 211-220.	2.1	31
49	Physiological Response of the European Hedgehog to Predator and Nonpredator Odour. <i>Physiology and Behavior</i> , 1996, 60, 1469-1472.	1.0	30
50	A Lotka-Volterra Model of Coexistence between a Sexual Population and Multiple Asexual Clones. <i>Journal of Theoretical Biology</i> , 2002, 217, 535-545.	0.8	30
51	Network parameters quantify loss of assemblage structure in human-impacted lake ecosystems. <i>Global Change Biology</i> , 2019, 25, 3871-3882.	4.2	30
52	Correction for bias in meta-analysis of little-replicated studies. <i>Methods in Ecology and Evolution</i> , 2018, 9, 634-644.	2.2	29
53	Implications of scale dependence for cross-study syntheses of biodiversity differences. <i>Ecology Letters</i> , 2021, 24, 374-390.	3.0	29
54	A spatially explicit agent-based model of the interactions between jaguar populations and their habitats. <i>Ecological Modelling</i> , 2015, 306, 268-277.	1.2	28

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55	Pneumococcal conjugate vaccine implementation in middle-income countries. <i>Pneumonia (Nathan Qld) Tj ETQq1</i> 1,0,784314,rgBT /Oce 2.5 28	1.0	28
56	Outcomes of reciprocal invasions between genetically diverse and genetically uniform populations of <i>Daphnia obtusa</i> (Kurz). <i>Oecologia</i> , 2005, 143, 527-536.	0.9	26
57	Ranging Behavior and Population Dynamics of the Chacoan Peccary, <i>Catagonus wagneri</i> . <i>Journal of Mammalogy</i> , 1993, 74, 443-454.	0.6	24
58	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.	0.7	22
59	Ecological Equivalence: A Realistic Assumption for Niche Theory as a Testable Alternative to Neutral Theory. <i>PLoS ONE</i> , 2009, 4, e7460.	1.1	22
60	Field test for environmental correlates of dispersal in hedgehogs <i>Erinaceus europaeus</i> . <i>Journal of Animal Ecology</i> , 2001, 70, 33-46.	1.3	21
61	Structural Equation Modeling and Natural Systems. <i>Fish and Fisheries</i> , 2007, 8, 368-369.	2.7	21
62	Lethal Toxins in Non-preferred Foods: How Plant Chemical Defences Can Drive Microtine Cycles. <i>Journal of Theoretical Biology</i> , 1999, 199, 63-85.	0.8	20
63	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.	0.7	20
64	Wild meat: a shared resource amongst people and predators. <i>Oryx</i> , 2016, 50, 63-75.	0.5	20
65	Meta-analysis of management effects on biodiversity in plantation and secondary forests of Japan. <i>Conservation Science and Practice</i> , 2019, 1, e14.	0.9	19
66	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.	0.8	18
67	Comment on "On the Regulation of Populations of Mammals, Birds, Fish, and Insects" III. <i>Science</i> , 2006, 311, 1100.3-1100.	6.0	18
68	Density Dependence Triggers Runaway Selection of Reduced Senescence. <i>PLoS Computational Biology</i> , 2007, 3, e256.	1.5	18
69	Extension of ideal free resource use to breeding populations and metapopulations. <i>Oikos</i> , 2000, 89, 24-36.	1.2	17
70	Dynamics of regional coexistence for more or less equal competitors. <i>Journal of Animal Ecology</i> , 2003, 72, 116-126.	1.3	17
71	The influence of simulated exploitation on <i>P. atella vulgata</i> populations: protandric sex change is size-dependent. <i>Ecology and Evolution</i> , 2016, 6, 514-531.	0.8	16
72	Non-linear density dependence in time series is not evidence of non-logistic growth. <i>Theoretical Population Biology</i> , 2008, 73, 483-489.	0.5	14

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73	Distinguishing Between Interference and Exploitation Competition for Shelter in a Mobile Fish Population. <i>Environmental Modeling and Assessment</i> , 2009, 14, 555-562.	1.2	14
74	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.	0.4	14
75	Leveraging conservation action with open-source hardware. <i>Conservation Letters</i> , 2019, 12, e12661.	2.8	14
76	Trophic resource partitioning drives fine-scale coexistence in cryptic bat species. <i>Ecology and Evolution</i> , 2020, 10, 14122-14136.	0.8	14
77	Borrowing from Peter to pay Paul: managing threatened predators of endangered and declining prey species. <i>PeerJ</i> , 2019, 7, e7916.	0.9	14
78	Response by coypus to catastrophic events of cold and flooding. <i>Ecography</i> , 1990, 13, 98-104.	2.1	13
79	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.	0.4	13
80	Metrics of structural change as indicators of chironomid community stability in high latitude lakes. <i>Quaternary Science Reviews</i> , 2020, 249, 106594.	1.4	13
81	Five new polymorphic microsatellite loci in the European hedgehog <i>Erinaceus europaeus</i> . <i>Molecular Ecology</i> , 2000, 9, 1949-1951.	2.0	12
82	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.	0.4	11
83	Density dependence in resource exploitation: empirical test of Levins' metapopulation model. <i>Ecology Letters</i> , 1999, 2, 44-51.	3.0	11
84	Model of microtine cycles caused by lethal toxins in non-preferred food plants. <i>Journal of Theoretical Biology</i> , 2005, 234, 593-604.	0.8	11
85	Sample-size effects on diet analysis from scats of jaguars and pumas. <i>Mammalia</i> , 2010, 74, 317-321.	0.3	11
86	Optimization of sensor deployment for acoustic detection and localization in terrestrial environments. <i>Remote Sensing in Ecology and Conservation</i> , 2019, 5, 180-192.	2.2	11
87	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.	1.3	10
88	Patchiness in resource distribution mitigates habitat loss: insights from high-shore grazers. <i>Ecosphere</i> , 2011, 2, art60.	1.0	10
89	Manipulated into giving: when parasitism drives apparent or incidental altruism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130108.	1.2	10
90	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.	1.9	10

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91	Healthy wrinkles for population dynamics: unevenly spread resources can support more users. <i>Journal of Animal Ecology</i> , 2001, 70, 91-100.	1.3	10
92	Automated detection of gunshots in tropical forests using convolutional neural networks. <i>Ecological Indicators</i> , 2022, 141, 109128.	2.6	10
93	Jaguar (<i>Panthera onca</i>) density and tenure in a critical biological corridor. <i>Journal of Mammalogy</i> , 2020, 101, 1622-1637.	0.6	9
94	The wider countryside-principles underlying the responses of mammals to heterogeneous environments. <i>Mammal Review</i> , 1993, 23, 113-120.	2.2	8
95	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.	0.9	8
96	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.	1.3	7
97	Ecosystems: The Rocky Road to Regime-Shift Indicators. <i>Current Biology</i> , 2015, 25, R666-R669.	1.8	7
98	Late Quaternary chironomid community structure shaped by rate and magnitude of climate change. <i>Journal of Quaternary Science</i> , 2021, 36, 360-376.	1.1	7
99	Interannual stability of phytoplankton community composition in the North-East Atlantic. <i>Marine Ecology - Progress Series</i> , 2020, 655, 43-57.	0.9	7
100	What determines territory configurations of badgers?. <i>Oikos</i> , 2001, 93, 497-498.	1.2	6
101	Over-representation of bird prey in pellets of South Polar Skuas. <i>Journal of Ornithology</i> , 2012, 153, 979-983.	0.5	6
102	Spatial and temporal interactions of free-ranging pacas (<i>Cuniculus paca</i>). <i>Mammal Research</i> , 2018, 63, 161-172.	0.6	6
103	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.	0.6	6
104	Using Adaptation Insurance to Incentivize Climate-change Mitigation. <i>Ecological Economics</i> , 2017, 135, 246-258.	2.9	5
105	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.	0.7	5
106	Stability of chironomid community structure during historic climatic and environmental change in subarctic Alaska. <i>Limnology and Oceanography</i> , 2022, 67, .	1.6	5
107	Evolution of indefinite generation lengths. <i>Biological Journal of the Linnean Society</i> , 2003, 80, 269-280.	0.7	4
108	Microbial epidemiology and carriage studies for the evaluation of vaccines. <i>Journal of Medical Microbiology</i> , 2019, 68, 1408-1418.	0.7	4

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109	Ranging behavior and habitat selection of pacas (<i>Cuniculus paca</i>) in central Belize. <i>Journal of Mammalogy</i> , 0, , gyw179.	0.6	3
110	Repeated-measures designs. , 0, , 179-228.		2
111	Impact of egg harvesting on breeding success of black-headed gulls, <i>Larus ridibundus</i> . <i>Acta Oecologica</i> , 2009, 35, 83-93.	0.5	2
112	Meta-analysis of management effects on biodiversity in plantation and secondary forests of Japan. <i>Conservation Science and Practice</i> , 0, , e14.	0.9	2
113	Invasion dynamics of an introduced squirrel in Argentina. <i>Ecography</i> , 2008, .	2.1	2
114	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.	1.2	2
115	Competitive environments sustain costly altruism with negligible assortment of interactions. <i>Scientific Reports</i> , 2013, 3, 2836.	1.6	1
116	Prospective evaluation of designs for analysis of variance without knowledge of effect sizes. <i>Environmental and Ecological Statistics</i> , 2014, 21, 239-261.	1.9	1
117	Multiple Life-History Stage Competition and its Effect on Coexistence. , 0, , .		1
118	Detecting regime shifts in artificial ecosystems. , 0, , .		1
119	Vital rate estimates for the common eider <i>Somateria mollissima</i> , a data-rich exemplar of the seaduck tribe. <i>Ecological Solutions and Evidence</i> , 2021, 2, e12108.	0.8	1
120	The Mink. <i>Journal of Animal Ecology</i> , 1994, 63, 496.	1.3	0
121	Hedgehogs. <i>Journal of Animal Ecology</i> , 1995, 64, 148.	1.3	0
122	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.	0.7	0
123	Nested designs. , 0, , 67-75.		0
124	Split-plot designs. , 0, , 141-178.		0
125	One-factor designs. , 0, , 61-66.		0
126	Troubleshooting problems during analysis. , 0, , 264-270.		0

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127	Introduction to model structures. , 0, , 42-60.		0
128	Fully replicated factorial designs. , 0, , 76-114.		0
129	Choosing experimental designs. , 0, , 248-257.		0
130	How to request models in a statistics package. , 0, , 258-259.		0
131	Randomised-block designs. , 0, , 115-140.		0
132	Unreplicated designs. , 0, , 229-236.		0
133	Best practice in presentation of the design. , 0, , 260-263.		0