Charles Patrick Doncaster

List of Publications by Year
in descending order

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	Safe and just operating spaces for regional social-ecological systems. Global Environmental Change, 2014, 28, 227-238.	7.8	311
2	AudioMoth: Evaluation of a smart open acoustic device for monitoring biodiversity and the environment. Methods in Ecology and Evolution, 2018, 9, 1199-1211.	5.2	256
3	Differential Use of Trails by Forest Mammals and the Implications for Cameraâ€Trap Studies: A Case Study from Belize. Biotropica, 2010, 42, 126-133.	1.6	180
4	Roads as barriers to movement for hedgehogs. Functional Ecology, 2002, 16, 504-509.	3.6	160
5	Balanced Dispersal Between Spatially Varying Local Populations: An Alternative To The Sourceâ€Sink Model. American Naturalist, 1997, 150, 425-445.	2.1	158
6	Drifting Territoriality in the Red Fox Vulpes vulpes. Journal of Animal Ecology, 1991, 60, 423.	2.8	157
7	Den Site Can Determine Shape and Size of Badger Territories: Implications for Group-Living. Oikos, 1993, 66, 88.	2.7	153
8	Jaguar and puma activity patterns in relation to their main prey. Mammalian Biology, 2011, 76, 320-324.	1.5	145
9	Feeding Ecology of Red Foxes (Vulpes vulpes) in the City of Oxford, England. Journal of Mammalogy, 1990, 71, 188-194.	1.3	141
10	The ecological cost of sex. Nature, 2000, 404, 281-285.	27.8	140
11	Spatial and Temporal Interactions of Sympatric Jaguars (Panthera onca) and Pumas(Puma) Tj ETQq1 1 0.784314 rgBT /Over	1.3	135
12	Non-parametric estimates of interaction from radio-tracking data. Journal of Theoretical Biology, 1990, 143, 431-443.	1.7	128
13	Responses of small mammals to Red fox (Vulpes vulpes) odour. Journal of Zoology, 2009, 204, 521-531.	1.7	122
14	Evaluating least-cost model predictions with empirical dispersal data: A case-study using radiotracking data of hedgehogs (Erinaceus europaeus). Ecological Modelling, 2007, 209, 314-322.	2.5	108
15	Activity patterns and interactions of red foxes (Vulpes vulpes) in Oxford city. Journal of Zoology, 1997, 241, 73-87.	1.7	106
16	AudioMoth: A low-cost acoustic device for monitoring biodiversity and the environment. HardwareX, 2019, 6, e00073.	2.2	103
17	Food habits of sympatric jaguars and pumas across a gradient of human disturbance. Journal of Zoology, 2010, 280, 309-318.	1.7	93
18	Habitat Use by Sympatric Jaguars and Pumas Across a Gradient of Human Disturbance in Belize. Biotropica, 2010, 42, 724-731.	1.6	84

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19	Stomatal conductance and not stomatal density determines the long-term reduction in leaf transpiration of poplar in elevated CO2. Oecologia, 2005, 143, 652-660.	2.0	80
20	Potential benefits of commercial willow Short Rotation Coppice (SRC) for farm-scale plant and invertebrate communities in the agri-environment. Biomass and Bioenergy, 2011, 35, 325-336.	5.7	79
21	Abundance of hedgehogs (Erinaceus europaeus) in relation to the density and distribution of badgers (Meles meles). Journal of Zoology, 2006, 269, 349-356.	1.7	74
22	Consequences for predators of rescue and Allee effects on prey. Ecological Modelling, 2003, 162, 233-245.	2.5	67
23	Responses of foraging hedgehogs to badger odour. Animal Behaviour, 1997, 53, 709-720.	1.9	65
24	Field test for environmental correlates of dispersal in hedgehogs Erinaceus europaeus. Journal of Animal Ecology, 2001, 70, 33-46.	2.8	65
25	Size-dependent microhabitat use and intraspecific competition in Cottus gobio. Journal of Fish Biology, 2005, 67, 428-443.	1.6	61
26	Factors Regulating Local Variations in Abundance: Field Tests on Hedgehogs, Erinaceus europaeus. Oikos, 1994, 69, 182.	2.7	60
27	A metaâ€analysis of functional group responses to forest recovery outside of the tropics. Conservation Biology, 2015, 29, 1695-1703.	4.7	59
28	Population consequences of mutual attraction between settling and adult barnacles. Journal of Animal Ecology, 2003, 72, 941-952.	2.8	53
29	What can ecosystems learn? Expanding evolutionary ecology with learning theory. Biology Direct, 2015, 10, 69.	4.6	49
30	Annual cycle of a coypu (myocastor coypus) population: male and female strategies. Journal of Zoology, 1989, 217, 227-240.	1.7	45
31	Influences of hedgerow intersections and gaps on the movement of carabid beetles. Bulletin of Entomological Research, 1999, 89, 523-531.	1.0	45
32	Early warning of critical transitions in biodiversity from compositional disorder. Ecology, 2016, 97, 3079-3090.	3.2	43
33	Heterogeneous capture rates in low density populations and consequences for captureâ€recapture analysis of cameraâ€trap data. Population Ecology, 2011, 53, 253-259.	1.2	42
34	Deploying Acoustic Detection Algorithms on Low-Cost, Open-Source Acoustic Sensors for Environmental Monitoring. Sensors, 2019, 19, 553.	3.8	42
35	Scrape-marking behavior of jaguars (Panthera onca) and pumas (Puma concolor). Journal of Mammalogy, 2010, 91, 1225-1234.	1.3	40
36	Population models of sperm-dependent parthenogenesis. Journal of Theoretical Biology, 2004, 229, 559-572.	1.7	37

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37	Use of meta-analysis in forest biodiversity research: key challenges and considerations. Forest Ecology and Management, 2017, 400, 429-437.	3.2	37
38	Past and present grazing boosts the photo-autotrophic biomass of biofilms. Marine Ecology - Progress Series, 2010, 401, 101-111.	1.9	37
39	Evaluating ecosystem processes in willow short rotation coppice bioenergy plantations. GCB Bioenergy, 2013, 5, 257-266.	5.6	36
40	Drivers of the composition and diversity of carabid functional traits in UK coniferous plantations. Forest Ecology and Management, 2016, 359, 300-308.	3.2	35
41	Similar biodiversity of ectomycorrhizal fungi in set-aside plantations and ancient old-growth broadleaved forests. Biological Conservation, 2016, 194, 71-79.	4.1	34
42	Impacts of Removing Badgers on Localised Counts of Hedgehogs. PLoS ONE, 2014, 9, e95477.	2.5	34
43	The Spatial Distribution of Ants' Nests on Ramsey Island, South Wales. Journal of Animal Ecology, 1981, 50, 195.	2.8	33
44	The accumulation of deleterious mutations within the frozen niche variation hypothesis. Journal of Evolutionary Biology, 2004, 17, 651-662.	1.7	33
45	Determining Minimum Habitat Requirements in Theory and Practice. Oikos, 1996, 75, 335.	2.7	32
46	Ranging behaviour and activity patterns of two sympatric peccaries, Catagonus wagneri and Tayassu tajacu, in the Paraguayan Chaco. Mammalia, 1994, 58, .	0.7	31
47	Population structure of coypus (Myocastor coypus) in their region of origin and comparison with introduced populations. Journal of Zoology, 2003, 261, 265-272.	1.7	31
48	Invasion dynamics of an introduced squirrel in Argentina. Ecography, 2008, 31, 211-220.	4.5	31
49	Physiological Response of the European Hedgehog to Predator and Nonpredator Odour. Physiology and Behavior, 1996, 60, 1469-1472.	2.1	30
50	A Lotkaâ€“Volterra Model of Coexistence between a Sexual Population and Multiple Asexual Clones. Journal of Theoretical Biology, 2002, 217, 535-545.	1.7	30
51	Network parameters quantify loss of assemblage structure in humanâ€impacted lake ecosystems. Global Change Biology, 2019, 25, 3871-3882.	9.5	30
52	Correction for bias in metaâ€analysis of littleâ€replicated studies. Methods in Ecology and Evolution, 2018, 9, 634-644.	5.2	29
53	Implications of scale dependence for crossâ€study syntheses of biodiversity differences. Ecology Letters, 2021, 24, 374-390.	6.4	29
54	A spatially explicit agent-based model of the interactions between jaguar populations and their habitats. Ecological Modelling, 2015, 306, 268-277.	2.5	28

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55	Pneumococcal conjugate vaccine implementation in middle-income countries. Pneumonia (Nathan Qld) Tj ETQq1 1 0.784314 rgBT /O	6.1	28
56	Outcomes of reciprocal invasions between genetically diverse and genetically uniform populations of Daphnia obtusa (Kurz). Oecologia, 2005, 143, 527-536.	2.0	26
57	Ranging Behavior and Population Dynamics of the Chacoan Peccary, Catagonus wagneri. Journal of Mammalogy, 1993, 74, 443-454.	1.3	24
58	Resource competition between genetically varied and genetically uniform populations of Daphnia pulex (Leydig): does sexual reproduction confer a short-term ecological advantage?. Biological Journal of the Linnean Society, 2005, 85, 111-123.	1.6	22
59	Ecological Equivalence: A Realistic Assumption for Niche Theory as a Testable Alternative to Neutral Theory. PLoS ONE, 2009, 4, e7460.	2.5	22
60	Field test for environmental correlates of dispersal in hedgehogsErinaceus europaeus. Journal of Animal Ecology, 2001, 70, 33-46.	2.8	21
61	Structural Equation Modeling and Natural Systems. Fish and Fisheries, 2007, 8, 368-369.	5.3	21
62	Lethal Toxins in Non-preferred Foods: How Plant Chemical Defences Can Drive Microtine Cycles. Journal of Theoretical Biology, 1999, 199, 63-85.	1.7	20
63	Mechanisms of density dependence in stream fish: exploitation competition for food reduces growth of adult European bullheads (Cottus gobio). Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 597-606.	1.4	20
64	Wild meat: a shared resource amongst people and predators. Oryx, 2016, 50, 63-75.	1.0	20
65	Metaâ€analysis of management effects on biodiversity in plantation and secondary forests of Japan. Conservation Science and Practice, 2019, 1, e14.	2.0	19
66	Optimum group size for defending heterogenous distributions of resources: A model applied to red foxes, Vulpes vulpes, in Oxford city. Journal of Theoretical Biology, 1992, 159, 189-198.	1.7	18
67	Comment on "On the Regulation of Populations of Mammals, Birds, Fish, and Insects" III. Science, 2006, 311, 1100.3-1100.	12.6	18
68	Density Dependence Triggers Runaway Selection of Reduced Senescence. PLoS Computational Biology, 2007, 3, e256.	3.2	18
69	Extension of ideal free resource use to breeding populations and metapopulations. Oikos, 2000, 89, 24-36.	2.7	17
70	Dynamics of regional coexistence for more or less equal competitors. Journal of Animal Ecology, 2003, 72, 116-126.	2.8	17
71	The influence of simulated exploitation on P atella vulgata populations: protandric sex change is sizeâ€dependent. Ecology and Evolution, 2016, 6, 514-531.	1.9	16
72	Non-linear density dependence in time series is not evidence of non-logistic growth. Theoretical Population Biology, 2008, 73, 483-489.	1.1	14

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73	Distinguishing Between Interference and Exploitation Competition for Shelter in a Mobile Fish Population. Environmental Modeling and Assessment, 2009, 14, 555-562.	2.2	14
74	Do wildlife corridors link or extend habitat? Insights from elephant use of a Kenyan wildlife corridor. African Journal of Ecology, 2018, 56, 860-871.	0.9	14
75	Leveraging conservation action with openâ€source hardware. Conservation Letters, 2019, 12, e12661.	5.7	14
76	Trophic resource partitioning drives fineâ€scale coexistence in cryptic bat species. Ecology and Evolution, 2020, 10, 14122-14136.	1.9	14
77	Borrowing from Peter to pay Paul: managing threatened predators of endangered and declining prey species. PeerJ, 2019, 7, e7916.	2.0	14
78	Response by coypus to catastrophic events of cold and flooding. Ecography, 1990, 13, 98-104.	4.5	13
79	Broad-scale patterns of sex ratios inPatellaspp.: a comparison of range edge and central range populations in the British Isles and Portugal. Journal of the Marine Biological Association of the United Kingdom, 2015, 95, 1141-1153.	0.8	13
80	Metrics of structural change as indicators of chironomid community stability in high latitude lakes. Quaternary Science Reviews, 2020, 249, 106594.	3.0	13
81	Five new polymorphic microsatellite loci in the European hedgehogErinaceus europaeus. Molecular Ecology, 2000, 9, 1949-1951.	3.9	12
82	Indirect calorimetry measurements of behavioral thermoregulation in a semiaquatic social rodent, Myocastor coypus. Canadian Journal of Zoology, 1992, 70, 907-911.	1.0	11
83	Density dependence in resource exploitation: empirical test of Levins' metapopulation model. Ecology Letters, 1999, 2, 44-51.	6.4	11
84	Model of microtine cycles caused by lethal toxins in non-preferred food plants. Journal of Theoretical Biology, 2005, 234, 593-604.	1.7	11
85	Sample-size effects on diet analysis from scats of jaguars and pumas. Mammalia, 2010, 74, 317-321.	0.7	11
86	Optimization of sensor deployment for acoustic detection and localization in terrestrial environments. Remote Sensing in Ecology and Conservation, 2019, 5, 180-192.	4.3	11
87	Intraspecific Variation in Movement Behaviour of Foxes (Vulpes vulpes): A Reply to White, Saunders & Harris. Journal of Animal Ecology, 1996, 65, 126.	2.8	10
88	Patchiness in resource distribution mitigates habitat loss: insights from high-shore grazers. Ecosphere, 2011, 2, art60.	2.2	10
89	Manipulated into giving: when parasitism drives apparent or incidental altruism. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130108.	2.6	10
90	Broadâ€scale patterns of geographic avoidance between species emerge in the absence of fineâ€scale mechanisms of coexistence. Diversity and Distributions, 2021, 27, 1606-1618.	4.1	10

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91	Healthy wrinkles for population dynamics: unevenly spread resources can support more users. Journal of Animal Ecology, 2001, 70, 91-100.	2.8	10
92	Automated detection of gunshots in tropical forests using convolutional neural networks. Ecological Indicators, 2022, 141, 109128.	6.3	10
93	Jaguar (Panthera onca) density and tenure in a critical biological corridor. Journal of Mammalogy, 2020, 101, 1622-1637.	1.3	9
94	The wider countryside-principles underlying the responses of mammals to heterogeneous environments. Mammal Review, 1993, 23, 113-120.	4.8	8
95	Effects of simulated human exploitation of a key grazer, Patella vulgata, on rocky shore assemblages. Marine Ecology - Progress Series, 2015, 533, 163-176.	1.9	8
96	A useful phenomenological difference between exploitation and interference in the distribution of ideal free predators. Journal of Animal Ecology, 1999, 68, 836-838.	2.8	7
97	Ecosystems: The Rocky Road to Regime-Shift Indicators. Current Biology, 2015, 25, R666-R669.	3.9	7
98	Late Quaternary chironomid community structure shaped by rate and magnitude of climate change. Journal of Quaternary Science, 2021, 36, 360-376.	2.1	7
99	Interannual stability of phytoplankton community composition in the North-East Atlantic. Marine Ecology - Progress Series, 2020, 655, 43-57.	1.9	7
100	What determines territory configurations of badgers?. Oikos, 2001, 93, 497-498.	2.7	6
101	Over-representation of bird prey in pellets of South Polar Skuas. Journal of Ornithology, 2012, 153, 979-983.	1.1	6
102	Spatial and temporal interactions of free-ranging pacas (Cuniculus paca). Mammal Research, 2018, 63, 161-172.	1.3	6
103	Ecology of a versatile canid in the Neotropics: gray foxes (Urocyon cinereoargenteus) in Belize, Central America. Mammal Research, 2019, 64, 319-332.	1.3	6
104	Using Adaptation Insurance to Incentivize Climate-change Mitigation. Ecological Economics, 2017, 135, 246-258.	5.7	5
105	Ecology and diversity in upper respiratory tract microbial population structures from a cross-sectional community swabbing study. Journal of Medical Microbiology, 2018, 67, 1096-1108.	1.8	5
106	Stability of chironomid community structure during historic climatic and environmental change in subarctic Alaska. Limnology and Oceanography, 2022, 67, .	3.1	5
107	Evolution of indefinite generation lengths. Biological Journal of the Linnean Society, 2003, 80, 269-280.	1.6	4
108	Microbial epidemiology and carriage studies for the evaluation of vaccines. Journal of Medical Microbiology, 2019, 68, 1408-1418.	1.8	4

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109	Ranging behavior and habitat selection of pacas (Cuniculus paca) in central Belize. Journal of Mammalogy, 0, , gyw179.	1.3	3
110	Repeated-measures designs. , 0, , 179-228.		2
111	Impact of egg harvesting on breeding success of black-headed gulls, Larus ridibundus. Acta Oecologica, 2009, 35, 83-93.	1.1	2
112	Metaâ€analysis of management effects on biodiversity in plantation and secondary forests of Japan. Conservation Science and Practice, 0, , e14.	2.0	2
113	Invasion dynamics of an introduced squirrel in Argentina. Ecography, 2008, .	4.5	2
114	Reconstruction of Ecological Transitions in a Temperate Shallow Lake of the Middle Yangtze River Basin in the Last Century. Water (Switzerland), 2022, 14, 1136.	2.7	2
115	Competitive environments sustain costly altruism with negligible assortment of interactions. Scientific Reports, 2013, 3, 2836.	3.3	1
116	Prospective evaluation of designs for analysis of variance without knowledge of effect sizes. Environmental and Ecological Statistics, 2014, 21, 239-261.	3.5	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 Somateria mollissima, a dataâ€rich exemplar of the seaduck tribe. Ecological Solutions and Evidence, 2021, 2, e12108.	2.0	1
120	The Mink. Journal of Animal Ecology, 1994, 63, 496.	2.8	0
121	Hedgehogs. Journal of Animal Ecology, 1995, 64, 148.	2.8	0
122	Introduction to Population EcologyBY LARRY L. ROCKWOOD xi + 339 pp., 119 figs, 37 tables, 24 Ã— 17 Ã— 1.5 cm, ISBN 1 4051 3263 9 paperback, GBÂ£ 27.99, Oxford, UK: Blackwell Publishing, 2006. Environmental Conservation, 2006, 33, 368-368.	1.3	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