

# Sam Banks

## List of Publications by Year in descending order

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Version: 2024-02-01

129  
papers

5,827  
citations

76326

40  
h-index

88630

70  
g-index

130  
all docs

130  
docs citations

130  
times ranked

6797  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change cascades: Shifts in oceanography, species' ranges and subtidal marine community dynamics in eastern Tasmania. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 400, 17-32.	1.5	525
2	Conceptual domain of the matrix in fragmented landscapes. <i>Trends in Ecology and Evolution</i> , 2013, 28, 605-613.	8.7	323
3	Newly discovered landscape traps produce regime shifts in wet forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15887-15891.	7.1	236
4	New Policies for Old Trees: Averting a Global Crisis in a Keystone Ecological Structure. <i>Conservation Letters</i> , 2014, 7, 61-69.	5.7	220
5	How does ecological disturbance influence genetic diversity?. <i>Trends in Ecology and Evolution</i> , 2013, 28, 670-679.	8.7	203
6	Genetic spatial autocorrelation can readily detect sex-biased dispersal. <i>Molecular Ecology</i> , 2012, 21, 2092-2105.	3.9	163
7	OCEANIC VARIABILITY AND COASTAL TOPOGRAPHY SHAPE GENETIC STRUCTURE IN A LONG-DISPERSING SEA URCHIN. <i>Ecology</i> , 2007, 88, 3055-3064.	3.2	157
8	Interacting Factors Driving a Major Loss of Large Trees with Cavities in a Forest Ecosystem. <i>PLoS ONE</i> , 2012, 7, e41864.	2.5	137
9	Starting points for small mammal population recovery after wildfire: recolonisation or residual populations?. <i>Oikos</i> , 2011, 120, 26-37.	2.7	126
10	How to make a common species rare: A case against conservation complacency. <i>Biological Conservation</i> , 2011, 144, 1663-1672.	4.1	124
11	Fire severity and landscape context effects on arboreal marsupials. <i>Biological Conservation</i> , 2013, 167, 137-148.	4.1	106
12	Sex and sociality in a disconnected world: a review of the impacts of habitat fragmentation on animal social interactions This review is one of a series dealing with some aspects of the impact of habitat fragmentation on animals and plants. This series is one of several virtual symposia focussing on ecological topics that will be published in the <i>Journal</i> from time to time.. <i>Canadian Journal of Zoology</i> , 2007, 85, 1065-1079.	1.0	103
13	Long-term impacts of wildfire and logging on forest soils. <i>Nature Geoscience</i> , 2019, 12, 113-118.	12.9	102
14	Niche Contractions in Declining Species: Mechanisms and Consequences. <i>Trends in Ecology and Evolution</i> , 2017, 32, 346-355.	8.7	100
15	Animal movements in fire-prone landscapes. <i>Biological Reviews</i> , 2019, 94, 981-998.	10.4	100
16	The Trajectory of Dispersal Research in Conservation Biology. <i>Systematic Review. PLoS ONE</i> , 2014, 9, e95053.	2.5	91
17	The effects of habitat fragmentation via forestry plantation establishment on spatial genotypic structure in the small marsupial carnivore, <i>Antechinus agilis</i> . <i>Molecular Ecology</i> , 2005, 14, 1667-1680.	3.9	89
18	Demographic monitoring of an entire species (the northern hairy-nosed wombat, <i>Lasiorchinus krefftii</i> ) by genetic analysis of non-invasively collected material. <i>Animal Conservation</i> , 2003, 6, 101-107.	2.9	84

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19	The effects of habitat fragmentation due to forestry plantation establishment on the demography and genetic variation of a marsupial carnivore, <i>Antechinus agilis</i> . <i>Biological Conservation</i> , 2005, 122, 581-597.	4.1	84
20	Ecosystem assessment of mountain ash forest in the central highlands of Victoria, south-eastern Australia. <i>Austral Ecology</i> , 2015, 40, 386-399.	1.5	83
21	Complex responses of birds to landscape-level fire extent, fire severity and environmental drivers. <i>Diversity and Distributions</i> , 2014, 20, 467-477.	4.1	72
22	Disturbance gradient shows logging affects plant functional groups more than fire. <i>Ecological Applications</i> , 2016, 26, 2280-2301.	3.8	72
23	Please do not disturb ecosystems further. <i>Nature Ecology and Evolution</i> , 2017, 1, 31.	7.8	72
24	The effects of habitat fragmentation on the social kin structure and mating system of the agile antechinus, <i>Antechinus agilis</i> . <i>Molecular Ecology</i> , 2005, 14, 1789-1801.	3.9	65
25	Genetic structure of a recent climate change-driven range extension. <i>Molecular Ecology</i> , 2010, 19, 2011-2024.	3.9	64
26	Priority effects can lead to underestimation of dispersal and invasion potential. <i>Biological Invasions</i> , 2015, 17, 1-8.	2.4	62
27	The Effects of Wildfire on Mortality and Resources for an Arboreal Marsupial: Resilience to Fire Events but Susceptibility to Fire Regime Change. <i>PLoS ONE</i> , 2011, 6, e22952.	2.5	61
28	Female dispersal and relatedness structure in common wombats ( <i>Vombatus ursinus</i> ). <i>Journal of Zoology</i> , 2002, 256, 389-399.	1.7	55
29	Wombat coprogenetics: enumerating a common wombat population by microsatellite analysis of faecal DNA. <i>Australian Journal of Zoology</i> , 2002, 50, 193.	1.0	54
30	Logging and fire regimes alter plant communities. <i>Ecological Applications</i> , 2018, 28, 826-841.	3.8	54
31	Environmental and human drivers influencing large old tree abundance in Australian wet forests. <i>Forest Ecology and Management</i> , 2016, 372, 226-235.	3.2	51
32	Aspects of the ecology of common wombats ( <i>Vombatus ursinus</i> ) at high density on pastoral land in Victoria. <i>Australian Journal of Zoology</i> , 2004, 52, 303.	1.0	50
33	Relationship between effective and demographic population size in continuously distributed populations. <i>Evolutionary Applications</i> , 2018, 11, 1162-1175.	3.1	50
34	Population structure of brush-tailed rock-wallaby ( <i>Petrogale penicillata</i> ) colonies inferred from analysis of faecal DNA. <i>Molecular Ecology</i> , 2005, 15, 93-105.	3.9	48
35	Converting quadratic entropy to diversity: Both animals and alleles are diverse, but some are more diverse than others. <i>PLoS ONE</i> , 2017, 12, e0185499.	2.5	48
36	Single large versus several small: The SLOSS debate in the context of bird responses to a variable retention logging experiment. <i>Forest Ecology and Management</i> , 2015, 339, 1-10.	3.2	45

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37	High adult mortality in disease-challenged frog populations increases vulnerability to drought. <i>Journal of Animal Ecology</i> , 2016, 85, 1453-1460.	2.8	45
38	Not all types of host contacts are equal when it comes to <i>E. coli</i> transmission. <i>Ecology Letters</i> , 2014, 17, 970-978.	6.4	44
39	Small mammals and retention islands: An experimental study of animal response to alternative logging practices. <i>Forest Ecology and Management</i> , 2010, 260, 2070-2078.	3.2	42
40	Conservation conundrums and the challenges of managing unexplained declines of multiple species. <i>Biological Conservation</i> , 2018, 221, 279-292.	4.1	42
41	Estimating population size of endangered brush-tailed rock-wallaby ( <i>Petrogale penicillata</i> ) colonies using faecal DNA. <i>Molecular Ecology</i> , 2005, 15, 81-91.	3.9	41
42	Dominant Drivers of Seedling Establishment in a Fire-Dependent Obligate Seeder: Climate or Fire Regimes?. <i>Ecosystems</i> , 2014, 17, 258-270.	3.4	40
43	"Nested" cryptic diversity in a widespread marine ecosystem engineer: a challenge for detecting biological invasions. <i>BMC Evolutionary Biology</i> , 2011, 11, 176.	3.2	39
44	Implications of recurrent disturbance for genetic diversity. <i>Ecology and Evolution</i> , 2016, 6, 1181-1196.	1.9	39
45	Cross-sectional vs. longitudinal research: a case study of trees with hollows and marsupials in Australian forests. <i>Ecological Monographs</i> , 2011, 81, 557-580.	5.4	37
46	Relationships between tree size and occupancy by cavity-dependent arboreal marsupials. <i>Forest Ecology and Management</i> , 2017, 391, 221-229.	3.2	37
47	Temporal trends in mammal responses to fire reveals the complex effects of fire regime attributes. <i>Ecological Applications</i> , 2016, 26, 557-573.	3.8	36
48	Where do animals come from during post-fire population recovery? Implications for ecological and genetic patterns in post-fire landscapes. <i>Ecography</i> , 2017, 40, 1325-1338.	4.5	36
49	Refuge site selection by the eastern chestnut mouse in recently burnt heath. <i>Wildlife Research</i> , 2011, 38, 290.	1.4	35
50	Kin selection in den sharing develops under limited availability of tree hollows for a forest marsupial. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2768-2776.	2.6	35
51	Identifying the location of fire refuges in wet forest ecosystems. <i>Ecological Applications</i> , 2015, 25, 2337-2348.	3.8	35
52	The dynamic regeneration niche of a forest following a rare disturbance event. <i>Diversity and Distributions</i> , 2016, 22, 457-467.	4.1	35
53	A set of microsatellite loci for the hairy-nosed wombats ( <i>Lasiorhinus krefftii</i> and <i>L. latifrons</i> ). <i>Conservation Genetics</i> , 2000, 1, 89-92.	1.5	33
54	Landscape genetics of an early successional specialist in a disturbance-prone environment. <i>Molecular Ecology</i> , 2013, 22, 1267-1281.	3.9	32

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55	Genetic marker investigation of the source and impact of predation on a highly endangered species. <i>Molecular Ecology</i> , 2003, 12, 1663-1667.	3.9	31
56	Animals as Agents in Fire Regimes. <i>Trends in Ecology and Evolution</i> , 2020, 35, 346-356.	8.7	31
57	Adult survival and microsatellite diversity in possums: effects of major histocompatibility complex-linked microsatellite diversity but not multilocus inbreeding estimators. <i>Oecologia</i> , 2010, 162, 359-370.	2.0	29
58	Genetic evidence for different scales of connectivity in a marine mollusc. <i>Marine Ecology - Progress Series</i> , 2008, 365, 127-136.	1.9	29
59	Monitoring ecological consequences of efforts to restore landscape-scale connectivity. <i>Biological Conservation</i> , 2017, 206, 201-209.	4.1	28
60	From unburnt to salvage logged: Quantifying bird responses to different levels of disturbance severity. <i>Journal of Applied Ecology</i> , 2018, 55, 1626-1636.	4.0	28
61	Inbreeding avoidance, patch isolation and matrix permeability influence dispersal and settlement choices by male agile antechinus in a fragmented landscape. <i>Journal of Animal Ecology</i> , 2014, 83, 515-524.	2.8	27
62	Short- and long-term effects of habitat fragmentation differ but are predicted by response to the matrix. <i>Ecology</i> , 2017, 98, 807-819.	3.2	27
63	Principles and practices for biodiversity conservation and restoration forestry: a 30 year case study on the Victorian montane ash forests and the critically endangered Leadbeater's Possum. <i>Australian Zoologist</i> , 2013, 36, 441-460.	1.1	27
64	Disturbance alters the forest soil microbiome. <i>Molecular Ecology</i> , 2022, 31, 419-447.	3.9	27
65	Direct and indirect disturbance impacts in forests. <i>Ecology Letters</i> , 2021, 24, 1225-1236.	6.4	25
66	High temporal variability in commensal <i>Escherichia coli</i> strain communities of a herbivorous marsupial. <i>Environmental Microbiology</i> , 2013, 15, 2162-2172.	3.8	24
67	Environmental influences on growth and reproductive maturation of a keystone forest tree: Implications for obligate seeder susceptibility to frequent fire. <i>Forest Ecology and Management</i> , 2018, 411, 108-119.	3.2	24
68	Dispersal responses override density effects on genetic diversity during post-disturbance succession. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152934.	2.6	23
69	Patterns of niche contraction identify vital refuge areas for declining mammals. <i>Diversity and Distributions</i> , 2020, 26, 1467-1482.	4.1	23
70	Microhabitat heterogeneity influences offspring sex allocation and spatial kin structure in possums. <i>Journal of Animal Ecology</i> , 2008, 77, 1250-1256.	2.8	22
71	The use of topographic fire refuges by the greater glider ( <i>Petauroides volans</i> ) and the mountain brushtail possum ( <i>Trichosurus cunninghami</i> ) following a landscape-scale fire. <i>Australian Mammalogy</i> , 2015, 37, 39.	1.1	21
72	Translocation, genetic structure and homing ability confirm geographic barriers disrupt saltwater crocodile movement and dispersal. <i>PLoS ONE</i> , 2019, 14, e0205862.	2.5	21

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73	Unburnt habitat patches are critical for survival and in situ population recovery in a small mammal after fire. <i>Journal of Applied Ecology</i> , 2021, 58, 1325-1335.	4.0	21
74	Fine-scale refuges can buffer demographic and genetic processes against short-term climatic variation and disturbance: a 22-year case study of an arboreal marsupial. <i>Molecular Ecology</i> , 2015, 24, 3831-3845.	3.9	20
75	Isolation, marine transgression and translocation of the bare-nosed wombat ( <i>Vombatus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.1	20
76	Novel bird responses to successive, large-scale, landscape transformations. <i>Ecological Monographs</i> , 2019, 89, e01362.	5.4	20
77	Mountain Ash. , 2015, , .		20
78	The effects of fire history on hollow-bearing tree abundance in montane and subalpine eucalypt forests in southeastern Australia. <i>Forest Ecology and Management</i> , 2018, 428, 93-103.	3.2	19
79	Empirical relationships between tree fall and landscape-level amounts of logging and fire. <i>PLoS ONE</i> , 2018, 13, e0193132.	2.5	19
80	Adaptive responses and disruptive effects: how major wildfire influences kinship-based social interactions in a forest marsupial. <i>Molecular Ecology</i> , 2012, 21, 673-684.	3.9	18
81	Broad Decline of Populations of Large Old Trees. <i>Conservation Letters</i> , 2014, 7, 72-73.	5.7	17
82	The effect of sex-biased dispersal on opposite-sexed spatial genetic structure and inbreeding risk. <i>Molecular Ecology</i> , 2015, 24, 1681-1695.	3.9	17
83	Do temporal changes in vegetation structure additional to time since fire predict changes in bird occurrence?. <i>Ecological Applications</i> , 2016, 26, 2267-2279.	3.8	17
84	Disease-associated change in an amphibian life-history trait. <i>Oecologia</i> , 2017, 184, 825-833.	2.0	17
85	Non-linear growth in tree ferns, <i>Dicksonia antarctica</i> and <i>Cyathea australis</i> . <i>PLoS ONE</i> , 2017, 12, e0176908.	2.5	17
86	Phylogeography and environmental correlates of a cap on reproduction: teat number in a small marsupial, <i>Antechinus agilis</i> . <i>Molecular Ecology</i> , 2006, 16, 1069-1083.	3.9	16
87	A morphological and phylogenetic investigation into divergence among sympatric Australian southern bull kelps ( <i>Durvillaea potatorum</i> and <i>D. amatheiae</i> sp. nov.). <i>Molecular Phylogenetics and Evolution</i> , 2017, 107, 630-643.	2.7	16
88	Genomic impact of severe population decline in a nomadic songbird. <i>PLoS ONE</i> , 2019, 14, e0223953.	2.5	15
89	Pervasive admixture between eucalypt species has consequences for conservation and assisted migration. <i>Evolutionary Applications</i> , 2019, 12, 845-860.	3.1	15
90	Evaluating exotic predator control programs using non-invasive genetic tagging. <i>Wildlife Research</i> , 2008, 35, 617.	1.4	13

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91	Population genomics and conservation management of a declining tropical rodent. <i>Heredity</i> , 2021, 126, 763-775.	2.6	12
92	Can Individual and Social Patterns of Resource Use Buffer Animal Populations against Resource Decline?. <i>PLoS ONE</i> , 2013, 8, e53672.	2.5	12
93	Fire severity alters spatio-temporal movements and habitat utilisation by an arboreal marsupial, the mountain brushtail possum ( <i>Trichosurus cunninghami</i> ). <i>International Journal of Wildland Fire</i> , 2016, 25, 1291.	2.4	11
94	The role of relatedness in mate choice by an arboreal marsupial in the presence of fine-scale genetic structure. <i>Behavioral Ecology and Sociobiology</i> , 2016, 70, 313-321.	1.4	11
95	Managing military training-related environmental disturbance. <i>Journal of Environmental Management</i> , 2017, 204, 486-493.	7.8	11
96	Features associated with effective biodiversity monitoring and evaluation. <i>Biological Conservation</i> , 2019, 238, 108221.	4.1	11
97	Chytrid fungus infection in alpine tree frogs is associated with individual heterozygosity and population isolation but not population-genetic diversity. <i>Frontiers of Biogeography</i> , 2020, 12, .	1.8	11
98	The need for a comprehensive reassessment of the Regional Forest Agreements in Australia. <i>Pacific Conservation Biology</i> , 2015, 21, 266.	1.0	10
99	Scale-dependent signatures of local adaptation in a foundation tree species. <i>Molecular Ecology</i> , 2021, 30, 2248-2261.	3.9	10
100	Long-unburnt habitat is critical for the conservation of threatened vertebrates across Australia. <i>Landscape Ecology</i> , 2022, 37, 1469-1482.	4.2	10
101	Environmental resistance and habitat quality influence dispersal of the saltwater crocodile. <i>Molecular Ecology</i> , 2022, 31, 1076-1092.	3.9	10
102	Microsatellite markers for the Sydney rock oyster, <i>Saccostrea glomerata</i> , a commercially important bivalve in southeastern Australia. <i>Molecular Ecology Notes</i> , 2006, 6, 856-858.	1.7	9
103	Ignoring the science in failing to conserve a faunal icon – major political, policy and management problems in preventing the extinction of Leadbeater's possum. <i>Pacific Conservation Biology</i> , 2015, 21, 257.	1.0	9
104	Landscape, fire and habitat: which features of recently burned heathland influence site occupancy of an early successional specialist?. <i>Landscape Ecology</i> , 2016, 31, 255-269.	4.2	9
105	When can refuges mediate the genetic effects of fire regimes? A simulation study of the effects of topography and weather on neutral and adaptive genetic diversity in fire-prone landscapes. <i>Molecular Ecology</i> , 2017, 26, 4935-4954.	3.9	9
106	Geographical Variation in Body Size and Sexual Size Dimorphism in an Australian Lizard, Boulenger's Skink ( <i>Morethia boulengeri</i> ). <i>PLoS ONE</i> , 2014, 9, e109830.	2.5	9
107	Ten years on – a decade of intensive biodiversity research after the 2009 Black Saturday wildfires in Victoria's Mountain Ash forest. <i>Australian Zoologist</i> , 2021, 41, 220-230.	1.1	9
108	Using probability modelling and genetic parentage assignment to test the role of local mate availability in mating system variation. <i>Molecular Ecology</i> , 2012, 21, 572-586.	3.9	8

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109	The use of traits to interpret responses to large scale - edge effects: a study of epigaeic beetle assemblages across a Eucalyptus forest and pine plantation edge. <i>Landscape Ecology</i> , 2016, 31, 1815-1831.	4.2	8
110	Phylogeographic Structure in Penguin Ticks across an Ocean Basin Indicates Allopatric Divergence and Rare Trans-Oceanic Dispersal. <i>PLoS ONE</i> , 2015, 10, e0128514.	2.5	8
111	The impact of mating systems and dispersal on fine-scale genetic structure at maternally, paternally and biparentally inherited markers. <i>Molecular Ecology</i> , 2018, 27, 66-82.	3.9	7
112	Prioritising source populations for supplementing genetic diversity of reintroduced southern brown bandicoots <i>Isoodon obesulus obesulus</i> . <i>Conservation Genetics</i> , 2021, 22, 341-353.	1.5	7
113	Microsatellite DNA markers for analysis of population structure in the sea urchin <i>Centrostephanus rodgersii</i> . <i>Molecular Ecology Notes</i> , 2007, 7, 321-323.	1.7	6
114	Development of a powerful microsatellite marker panel for <i>Trichosurus cunninghami</i> . <i>Conservation Genetics Resources</i> , 2014, 6, 95-97.	0.8	6
115	Conserving and restoring endangered southern populations of the Squirrel Glider ( <i>Petaurus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.3	6
116	A long-term habitat fragmentation experiment leads to morphological change in a species of carabid beetle. <i>Ecological Entomology</i> , 2018, 43, 282-293.	2.2	6
117	The population genetic structure of the urchin <i>Centrostephanus rodgersii</i> in New Zealand with links to Australia. <i>Marine Biology</i> , 2021, 168, 1.	1.5	6
118	Non-invasive genetic sampling is one of our most powerful and ethical tools for threatened species population monitoring: a reply to Lavery et al.. <i>Biodiversity and Conservation</i> , 2022, 31, 723-728.	2.6	5
119	Use of SSCP to improve the efficiency of microsatellite identification from microsatellite-enriched libraries. <i>Molecular Ecology Notes</i> , 2006, 6, 613-615.	1.7	4
120	Maternal lineages best explain the associations of a semisocial marsupial. <i>Behavioral Ecology</i> , 2014, 25, 1212-1222.	2.2	4
121	The influence of fire and silvicultural practices on the landscape-scale genetic structure of an Australian foundation tree species. <i>Conservation Genetics</i> , 2020, 21, 231-246.	1.5	4
122	Population genetic structure and dispersal patterns of a cooperative breeding bird in variable environmental conditions. <i>Animal Behaviour</i> , 2022, 183, 127-137.	1.9	4
123	Functional genotypes are associated with commensal <i>Escherichia coli</i> strain abundance within host individuals and populations. <i>Molecular Ecology</i> , 2013, 22, 4112-4122.	3.9	3
124	The founder space race: a reply to Buckley et al.. <i>Trends in Ecology and Evolution</i> , 2013, 28, 190-191.	8.7	2
125	Development of nine polymorphic microsatellite loci in the squirrel glider ( <i>Petaurus norfolcensis</i> ). <i>Conservation Genetics Resources</i> , 2014, 6, 785-786.	0.8	1
126	The Role of Biotic Interactions in the Niche Reduction Hypothesis: A Reply to Doherty and Driscoll. <i>Trends in Ecology and Evolution</i> , 2018, 33, 148-149.	8.7	1



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127	Population genetic patterns in an irruptive species, the long-nosed bandicoot ( <i>Perameles nasuta</i> ). <i>Conservation Genetics</i> , 2018, 19, 655-663.	1.5	1
128	Genetic analyses in fauna conservation: issues and applications to Australian forests. , 2004, , 576-590.		1
129	Functional genotypes are associated with commensal <i>Escherichia coli</i> strain abundance within host individuals and populations. <i>Molecular Ecology</i> , 2013, 22, 6197-6197.	3.9	0