Michael Bunce

List of Publications by Year in descending order

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71102 46799 9,304 109 41 89 citations h-index g-index papers 116 116 116 11148 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Whole-genome analyses resolve early branches in the tree of life of modern birds. Science, 2014, 346, 1320-1331.	12.6	1,583
2	Comparative genomics reveals insights into avian genome evolution and adaptation. Science, 2014, 346, 1311-1320.	12.6	895
3	Diverse Plant and Animal Genetic Records from Holocene and Pleistocene Sediments. Science, 2003, 300, 791-795.	12.6	571
4	The half-life of DNA in bone: measuring decay kinetics in 158 dated fossils. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4724-4733.	2.6	478
5	Ecosystem biomonitoring with eDNA: metabarcoding across the tree of life in a tropical marine environment. Scientific Reports, 2017, 7, 12240.	3.3	355
6	Dense sampling of bird diversity increases power of comparative genomics. Nature, 2020, 587, 252-257.	27.8	251
7	Deep Sequencing of Plant and Animal DNA Contained within Traditional Chinese Medicines Reveals Legality Issues and Health Safety Concerns. PLoS Genetics, 2012, 8, e1002657.	3.5	245
8	Ancient DNA Chronology within Sediment Deposits: Are Paleobiological Reconstructions Possible and Is DNA Leaching a Factor?. Molecular Biology and Evolution, 2007, 24, 982-989.	8.9	202
9	Environmental DNA (eDNA) metabarcoding reveals strong discrimination among diverse marine habitats connected by water movement. Molecular Ecology Resources, 2019, 19, 426-438.	4.8	180
10	Combined use of eDNA metabarcoding and video surveillance for the assessment of fish biodiversity. Conservation Biology, 2019, 33, 196-205.	4.7	178
11	From Benchtop to Desktop: Important Considerations when Designing Amplicon Sequencing Workflows. PLoS ONE, 2015, 10, e0124671.	2.5	177
12	Beyond Biodiversity: Can Environmental DNA (eDNA) Cut It as a Population Genetics Tool?. Genes, 2019, 10, 192.	2.4	160
13	Extreme reversed sexual size dimorphism in the extinct New Zealand moa Dinornis. Nature, 2003, 425, 172-175.	27.8	151
14	eDNA metabarcoding survey reveals fineâ€scale coral reef community variation across a remote, tropical island ecosystem. Molecular Ecology, 2020, 29, 1069-1086.	3.9	125
15	DNA-Based Faecal Dietary Analysis: A Comparison of qPCR and High Throughput Sequencing Approaches. PLoS ONE, 2011, 6, e25776.	2.5	124
16	Hologenomic adaptations underlying the evolution of sanguivory in the common vampire bat. Nature Ecology and Evolution, 2018, 2, 659-668.	7.8	124
17	<scp>DNA</scp> metabarcoding for diet analysis and biodiversity: A case study using the endangered Australian sea lion (<i>Neophoca cinerea</i>). Ecology and Evolution, 2017, 7, 5435-5453.	1.9	120
18	Marine environmental DNA biomonitoring reveals seasonal patterns in biodiversity and identifies ecosystem responses to anomalous climatic events. PLoS Genetics, 2019, 15, e1007943.	3.5	112

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19	Extinct New Zealand megafauna were not in decline before human colonization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4922-4927.	7.1	109
20	Environmental DNA metabarcoding studies are critically affected by substrate selection. Molecular Ecology Resources, 2019, 19, 366-376.	4.8	105
21	Fossil avian eggshell preserves ancient DNA. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1991-2000.	2.6	103
22	Combined DNA, toxicological and heavy metal analyses provides an auditing toolkit to improve pharmacovigilance of traditional Chinese medicine (TCM). Scientific Reports, 2015, 5, 17475.	3.3	99
23	Maximizing fish detection with eDNA metabarcoding. Environmental DNA, 2020, 2, 493-504.	5.8	99
24	Inhibition of the endosymbiont "Candidatus Midichloria mitochondrii―during 16S rRNA gene profiling reveals potential pathogens in Ixodes ticks from Australia. Parasites and Vectors, 2015, 8, 345.	2.5	95
25	Identification of microsatellites from an extinct moa species using high-throughput (454) sequence data. BioTechniques, 2009, 46, 195-200.	1.8	94
26	Subsistence practices, past biodiversity, and anthropogenic impacts revealed by New Zealand-wide ancient DNA survey. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7771-7776.	7.1	92
27	Assessing the utility of eDNA as a tool to survey reef-fish communities in the Red Sea. Coral Reefs, 2017, 36, 1245-1252.	2.2	84
28	The value of environmental DNA biobanking for long-term biomonitoring. Nature Ecology and Evolution, 2018, 2, 1192-1193.	7.8	78
29	Ancient DNA Provides New Insights into the Evolutionary History of New Zealand's Extinct Giant Eagle. PLoS Biology, 2005, 3, e9.	5.6	77
30	Water stratification in the marine biome restricts vertical environmental DNA (eDNA) signal dispersal. Environmental DNA, 2020, 2, 99-111.	5.8	74
31	Scrapheap Challenge: A novel bulk-bone metabarcoding method to investigate ancient DNA in faunal assemblages. Scientific Reports, 2013, 3, 3371.	3.3	72
32	Metagenomic analyses of bacteria on human hairs: a qualitative assessment for applications in forensic science. Investigative Genetics, 2014, 5, 16.	3.3	69
33	The Microbiome of the Gastrointestinal Tract of a Range-Shifting Marine Herbivorous Fish. Frontiers in Microbiology, 2018, 9, 2000.	3.5	67
34	Environmental DNA can act as a biodiversity barometer of anthropogenic pressures in coastal ecosystems. Scientific Reports, 2020, 10, 8365.	3.3	66
35	Eggshell palaeogenomics: Palaeognath evolutionary history revealed through ancient nuclear and mitochondrial DNA from Madagascan elephant bird (Aepyornis sp.) eggshell. Molecular Phylogenetics and Evolution, 2017, 109, 151-163.	2.7	65
36	The influence of diet and environment on the gut microbial community of field crickets. Ecology and Evolution, 2018, 8, 4704-4720.	1.9	63

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37	Speciesâ€level biodiversity assessment using marine environmental DNA metabarcoding requires protocol optimization and standardization. Ecology and Evolution, 2019, 9, 1323-1335.	1.9	62
38	â€~The Farm Beneath the Sand' – an archaeological case study on ancient â€~dirt' DNA. Antiquity, 2009, 430-444.	, 83, 1.0	60
39	Testing multiple substrates for terrestrial biodiversity monitoring using environmental DNA metabarcoding. Molecular Ecology Resources, 2020, 20, 732-745.	4.8	60
40	The rise and fall of arbuscular mycorrhizal fungal diversity during ecosystem retrogression. Molecular Ecology, 2015, 24, 4912-4930.	3.9	51
41	Genetic diversity loss in a biodiversity hotspot: ancient <scp>DNA</scp> quantifies genetic decline and former connectivity in a critically endangered marsupial. Molecular Ecology, 2015, 24, 5813-5828.	3.9	48
42	Development and evaluation of fish eDNA metabarcoding assays facilitate the detection of cryptic seahorse taxa (family: Syngnathidae). Environmental DNA, 2020, 2, 614-626.	5.8	48
43	Rapid range shifts and megafaunal extinctions associated with late Pleistocene climate change. Nature Communications, 2020, 11 , 2770.	12.8	46
44	Debugging diversity – a panâ€continental exploration of the potential of terrestrial bloodâ€feeding leeches as a vertebrate monitoring tool. Molecular Ecology Resources, 2018, 18, 1282-1298.	4.8	45
45	Largeâ€scale eDNA metabarcoding survey reveals marine biogeographic break and transitions over tropical northâ€western Australia. Diversity and Distributions, 2021, 27, 1942-1957.	4.1	45
46	Arctic shrub colonization lagged peak postglacial warmth: Molecular evidence in lake sediment from Arctic Canada. Global Change Biology, 2019, 25, 4244-4256.	9.5	43
47	An extremely low-density human population exterminated New Zealand moa. Nature Communications, 2014, 5, 5436.	12.8	42
48	Development of a multi-assay approach for monitoring coral diversity using eDNA metabarcoding. Coral Reefs, 2020, 39, 159-171.	2.2	42
49	High-throughput sequencing of ancient plant and mammal DNA preserved in herbivore middens. Quaternary Science Reviews, 2012, 58, 135-145.	3.0	40
50	Strategies for sample labelling and library preparation in DNA metabarcoding studies. Molecular Ecology Resources, 2022, 22, 1231-1246.	4.8	40
51	Profiling the Dead: Generating Microsatellite Data from Fossil Bones of Extinct Megafauna—Protocols, Problems, and Prospects. PLoS ONE, 2011, 6, e16670.	2.5	39
52	eDNAFlow, an automated, reproducible and scalable workflow for analysis of environmental DNA sequences exploiting Nextflow and Singularity. Molecular Ecology Resources, 2021, 21, 1697-1704.	4.8	39
53	Tropical ancient DNA from bulk archaeological fish bone reveals the subsistence practices of a historic coastal community in southwest Madagascar. Journal of Archaeological Science, 2016, 75, 82-88.	2.4	38
54	Making environmental DNA (eDNA) biodiversity records globally accessible. Environmental DNA, 2021, 3, 699-705.	5.8	38

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55	Thorough assessment of DNA preservation from fossil bone and sediments excavated from a late Pleistocene–Holocene cave deposit on Kangaroo Island, South Australia. Quaternary Science Reviews, 2014, 84, 56-64.	3.0	36
56	Changes in ectomycorrhizal fungal community composition and declining diversity along a 2â€millionâ€year soil chronosequence. Molecular Ecology, 2016, 25, 4919-4929.	3.9	35
57	A critical evaluation of how ancient DNA bulk bone metabarcoding complements traditional morphological analysis of fossil assemblages. Quaternary Science Reviews, 2015, 128, 37-47.	3.0	33
58	DNA metabarcoding—a new approach to fauna monitoring in mine site restoration. Restoration Ecology, 2018, 26, 1098-1107.	2.9	33
59	Unlocking the phylogenetic diversity, primary habitats, and abundances of freeâ€living Symbiodiniaceae on a coral reef. Molecular Ecology, 2021, 30, 343-360.	3.9	33
60	Comparison of Sanger and next generation sequencing performance for genotyping Cryptosporidium isolates at the 18S rRNA and actin loci. Experimental Parasitology, 2015, 151-152, 21-27.	1.2	32
61	Early Pastoral Economies and Herding Transitions in Eastern Eurasia. Scientific Reports, 2020, 10, 1001.	3.3	29
62	Ancient plant DNA reveals High Arctic greening during the Last Interglacial. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
63	Application of STR markers in wildlife forensic casework involving Australian black-cockatoos (Calyptorhynchus spp.). Forensic Science International: Genetics, 2012, 6, 664-670.	3.1	26
64	Metabarcoding avian diets at airports: implications for birdstrike hazard management planning. Investigative Genetics, 2013, 4, 27.	3.3	25
65	Evidence for fungi and gold redox interaction under Earth surface conditions. Nature Communications, 2019, 10, 2290.	12.8	25
66	Coral monitoring in northwest Australia with environmental DNA metabarcoding using a curated reference database for optimized detection. Environmental DNA, 2022, 4, 63-76.	5.8	25
67	Towards reproducible metabarcoding data: Lessons from an international crossâ€laboratory experiment. Molecular Ecology Resources, 2021, , .	4.8	25
68	Digging for DNA at depth: rapid universal metabarcoding surveys (RUMS) as a tool to detect coral reef biodiversity across a depth gradient. PeerJ, 2019, 7, e6379.	2.0	24
69	Toxicological screening and DNA sequencing detects contamination and adulteration in regulated herbal medicines and supplements for diet, weight loss and cardiovascular health. Journal of Pharmaceutical and Biomedical Analysis, 2019, 176, 112834.	2.8	22
70	Mitochondrial Genomes from New Zealand's Extinct Adzebills (Aves: Aptornithidae: Aptornis) Support a Sister-Taxon Relationship with the Afro-Madagascan Sarothruridae. Diversity, 2019, 11, 24.	1.7	22
71	Ancient DNA analyses of early archaeological sites in New Zealand reveal extreme exploitation of moa (Aves: Dinornithiformes) at all life stages. Quaternary Science Reviews, 2012, 52, 41-48.	3.0	20
72	An assessment of ancient DNA preservation in Holocene–Pleistocene fossil bone excavated from the world heritage Naracoorte Caves, South Australia. Journal of Quaternary Science, 2016, 31, 33-45.	2.1	20

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73	DNA metabarcoding assays reveal a diverse prey assemblage for <i>Mobula</i> rays in the Bohol Sea, Philippines. Ecology and Evolution, 2019, 9, 2459-2474.	1.9	20
74	Towards a macroscope: Leveraging technology to transform the breadth, scale and resolution of macroecological data. Global Ecology and Biogeography, 2019, 28, 1937-1948.	5.8	20
75	Partitioning of diet between species and life history stages of sympatric and cryptic snappers (Lutjanidae) based on DNA metabarcoding. Scientific Reports, 2020, 10, 4319.	3.3	20
76	Invertebrate DNA metabarcoding reveals changes in communities across mine site restoration chronosequences. Restoration Ecology, 2019, 27, 1177-1186.	2.9	19
77	Interpreting biological degradative processes acting on mammalian hair in the living and the dead: which ones are taphonomic?. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141755.	2.6	18
78	International workshop on advancing methods to overcome challenges associated with life history and stock assessments of data-poor deep-water snappers and groupers. Marine Policy, 2017, 79, 78-83.	3.2	18
79	Merging ancient and modern DNA: extinct seabird taxon rediscovered in the North Tasman Sea. Biology Letters, 2010, 6, 94-97.	2.3	17
80	Mitogenomic evidence of close relationships between New Zealand's extinct giant raptors and small-sized Australian sister-taxa. Molecular Phylogenetics and Evolution, 2019, 134, 122-128.	2.7	17
81	Environmental DNA reveals a multiâ€ŧaxa biogeographic break across the Arabian Sea and Sea of Oman. Environmental DNA, 2022, 4, 206-221.	5.8	17
82	Cross-species amplification at microsatellite loci in Australian quolls including the description of five new markers from the Chuditch (Dasyurus geoffroii). Molecular Ecology Notes, 2007, 7, 1100-1103.	1.7	16
83	Time to Spread Your Wings: A Review of the Avian Ancient DNA Field. Genes, 2017, 8, 184.	2.4	16
84	Detection of the rare Australian endemic blind cave eel (Ophisternon candidum) with environmental DNA: implications for threatened species management in subterranean environments. Hydrobiologia, 2020, 847, 3201-3211.	2.0	16
85	Identifying conservation units after large-scale land clearing: a spatio-temporal molecular survey of endangered white-tailed black cockatoos (Calyptorhynchusspp.). Diversity and Distributions, 2014, 20, 1208-1220.	4.1	15
86	Ancient DNA reveals complexity in the evolutionary history and taxonomy of the endangered Australian brush-tailed bettongs (Bettongia: Marsupialia: Macropodidae: Potoroinae). Biodiversity and Conservation, 2016, 25, 2907-2927.	2.6	14
87	Avian mitochondrial genomes retrieved from museum eggshell. Molecular Ecology Resources, 2019, 19, 1052-1062.	4.8	14
88	Ancient proteins resolve controversy over the identity of <i>Genyornis </i> eggshell. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
89	Quantitative Real-Time PCR in aDNA Research. Methods in Molecular Biology, 2012, 840, 121-132.	0.9	13
90	Adulterants and Contaminants in Psychotropic Herbal Medicines Detected with Mass Spectrometry and Next-Generation DNA Sequencing. Pharmaceutical Medicine, 2018, 32, 429-444.	1.9	13

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91	Molecular and morphological analyses of avian eggshell excavated from a late thirteenth century earth oven. Journal of Archaeological Science, 2011, , .	2.4	12
92	Under the karst: detecting hidden subterranean assemblages using eDNA metabarcoding in the caves of Christmas Island, Australia. Scientific Reports, 2020, 10, 21479.	3.3	12
93	Micro Methods for Megafauna: Novel Approaches to Late Quaternary Extinctions and Their Contributions to Faunal Conservation in the Anthropocene. BioScience, 2019, 69, 877-887.	4.9	11
94	Development of a 16S metabarcoding assay for the environmental DNA (eDNA) detection of aquatic reptiles across northern Australia. Marine and Freshwater Research, 2021, , .	1.3	11
95	Determination of the diet of the ghost bat (Macroderma gigas) in the Pilbara region of Western Australia from dried prey remains and DNA metabarcoding. Australian Journal of Zoology, 2018, 66, 195.	1.0	10
96	Ancient DNA preserved in small bone fragments from the P.W. Lund collection. Ecology and Evolution, 2021, 11, 2064-2071.	1.9	9
97	Exploring the Application of the DSA-TOF, a Direct, High-resolution Time-of-Flight Mass Spectrometry Technique for the Screening of Potential Adulterated and Contaminated Herbal Medicines. Journal of the American Society for Mass Spectrometry, 2019, 30, 1713-1719.	2.8	8
98	Combined Liquid Chromatography-mass Spectrometry and Next-generation DNA Sequencing Detection of Adulterants and Contaminants in Analgesic and Anti-inflammatory Herbal Medicines. Pharmaceutical Medicine, 2020, 34, 49-61.	1.9	8
99	The application of metabolomics for herbal medicine pharmacovigilance: a case study on ginseng. Essays in Biochemistry, 2016, 60, 429-435.	4.7	6
100	Genomic and life-history discontinuity reveals a precinctive lineage for a deep-water grouper with gene flow from tropical to temperate waters on the west coast of Australia. Ecological Genetics and Genomics, 2018, 9, 23-33.	0.5	6
101	Ancient DNA from bulk bone reveals past genetic diversity of vertebrate fauna on Kangaroo Island, Australia. Quaternary Science Reviews, 2021, 262, 106962.	3.0	6
102	Phylogeography of recent Plesiastrea (Scleractinia: Plesiastreidae) based on an integrated taxonomic approach. Molecular Phylogenetics and Evolution, 2022, 172, 107469.	2.7	6
103	Climate-assisted persistence of tropical fish vagrants in temperate marine ecosystems. Communications Biology, 2021, 4, 1231.	4.4	5
104	Evaluating restoration trajectories using DNA metabarcoding of groundâ€dwelling and airborne invertebrates and associated plant communities. Molecular Ecology, 2022, 31, 2172-2188.	3.9	5
105	Complementary molecular and visual sampling of fish on oil and gas platforms provides superior biodiversity characterisation. Marine Environmental Research, 2022, 179, 105692.	2.5	5
106	MobiSeq: De novo SNP discovery in model and nonâ€model species through sequencing the flanking region of transposable elements. Molecular Ecology Resources, 2019, 19, 512-525.	4.8	4
107	Crop-Zone Weed Mycobiomes of the South-Western Australian Grain Belt. Frontiers in Microbiology, 2020, 11, 581592.	3.5	4
108	Protein and carbohydrate intakes alter gut microbial community structure in crickets: a Geometric Framework approach. FEMS Microbiology Ecology, 2019, 95, .	2.7	2

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109	Comprehensive evidence for subspecies designations in Cook's Petrel Pterodroma cookii with implications for conservation management. Bird Conservation International, 2021, 31, 1-13.	1.3	2