

Barnabas H Daru

List of Publications by Year in descending order

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Version: 2024-02-01

137
papers

11,383
citations

44069

48
h-index

32842

100
g-index

148
all docs

148
docs citations

148
times ranked

13815
citing authors

#	ARTICLE	IF	CITATIONS
1	Host phylogenetic diversity predicts the global extent and composition of tree pests. <i>Ecology Letters</i> , 2022, 25, 101-112.	6.4	11
2	Global camera trap synthesis highlights the importance of protected areas in maintaining mammal diversity. <i>Conservation Letters</i> , 2022, 15, .	5.7	35
3	A global analysis of tree pests and emerging pest threats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2113298119.	7.1	5
4	Phylogenetic and functional clustering illustrate the roles of adaptive radiation and dispersal filtering in jointly shaping late-Quaternary mammal assemblages on oceanic islands. <i>Ecology Letters</i> , 2022, 25, 1250-1262.	6.4	16
5	Detecting the phylogenetic signal of glacial refugia in a bryodiversity hotspot outside the tropics. <i>Diversity and Distributions</i> , 2022, 28, 2681-2695.	4.1	5
6	Assessing the phylogenetic host breadth of millet pathogens and its implication for disease spillover. <i>Ecological Solutions and Evidence</i> , 2021, 2, e12040.	2.0	4
7	Ecophylogenetics redux. <i>Ecology Letters</i> , 2021, 24, 1073-1088.	6.4	35
8	Exploring a new way to think about climate regions. <i>ELife</i> , 2021, 10, .	6.0	2
9	Opposing macroevolutionary and trait-mediated patterns of threat and naturalisation in flowering plants. <i>Ecology Letters</i> , 2021, 24, 1237-1250.	6.4	8
10	Impediments to Understanding Seagrasses'™ Response to Global Change. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	9
11	Phenological sensitivity to temperature mediates herbivory. <i>Global Change Biology</i> , 2021, 27, 2315-2327.	9.5	23
12	Migratory birds aid the redistribution of plants to new climates. <i>Nature</i> , 2021, 595, 34-36.	27.8	2
13	Identifying co-phylogenetic hotspots for zoonotic disease. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200363.	4.0	6
14	Towards a phylogenetic ecology of plant pests and pathogens. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200359.	4.0	27
15	Bias assessments to expand research harnessing biological collections. <i>Trends in Ecology and Evolution</i> , 2021, 36, 1071-1082.	8.7	30
16	Forecasting parasite sharing under climate change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200360.	4.0	19
17	The ghost of hosts past: impacts of host extinction on parasite specificity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200351.	4.0	14
18	Widespread homogenization of plant communities in the Anthropocene. <i>Nature Communications</i> , 2021, 12, 6983.	12.8	57

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19	The ecology and evolution of seed predation by Darwin's finches on <i>Tribulus cistoides</i> on the Galápagos Islands. <i>Ecological Monographs</i> , 2020, 90, e01392.	5.4	15
20	Climate change and the future restructuring of Neotropical anuran biodiversity. <i>Ecography</i> , 2020, 43, 222-235.	4.5	34
21	Savanna tree evolutionary ages inform the reconstruction of the paleoenvironment of our hominin ancestors. <i>Scientific Reports</i> , 2020, 10, 12430.	3.3	15
22	phyloregion: R package for biogeographical regionalization and macroecology. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1483-1491.	5.2	70
23	Identifying biodiversity knowledge gaps for conserving South Africa's endemic flora. <i>Biodiversity and Conservation</i> , 2020, 29, 2803-2819.	2.6	26
24	Endemism patterns are scale dependent. <i>Nature Communications</i> , 2020, 11, 2115.	12.8	56
25	The interaction of phylogeny and community structure: Linking the community composition and trait evolution of clades. <i>Global Ecology and Biogeography</i> , 2019, 28, 1499-1511.	5.8	14
26	Invasive species differ in key functional traits from native and non-invasive alien plant species. <i>Journal of Vegetation Science</i> , 2019, 30, 994-1006.	2.2	64
27	Temperature controls phenology in continuously flowering <i>Protea</i> species of subtropical Africa. <i>Applications in Plant Sciences</i> , 2019, 7, e01232.	2.1	17
28	Spatial overlaps between the global protected areas network and terrestrial hotspots of evolutionary diversity. <i>Global Ecology and Biogeography</i> , 2019, 28, 757-766.	5.8	54
29	Herbarium specimens reveal increasing herbivory over the past century. <i>Journal of Ecology</i> , 2019, 107, 105-117.	4.0	56
30	A comparison of phylogenetic and species beta diversity measures describing vegetation assemblages along an elevation gradient. <i>Journal of Vegetation Science</i> , 2019, 30, 98-107.	2.2	4
31	Phylogenetically weighted regression: A method for modelling non-stationarity on evolutionary trees. <i>Global Ecology and Biogeography</i> , 2019, 28, 275-285.	5.8	6
32	Biological collections for understanding biodiversity in the Anthropocene. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20170386.	4.0	161
33	A novel proof of concept for capturing the diversity of endophytic fungi preserved in herbarium specimens. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20170395.	4.0	28
34	Museum specimens provide novel insights into changing plant-herbivore interactions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20170393.	4.0	37
35	The macroecology and macroevolution of plant species at risk. <i>New Phytologist</i> , 2019, 222, 708-713.	7.3	28
36	Global macroevolution and macroecology of passerine song. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 944-960.	2.3	34

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37	Assessing among-lineage variability in phylogenetic imputation of functional trait datasets. <i>Ecography</i> , 2018, 41, 1740-1749.	4.5	26
38	The unrealized potential of herbaria for global change biology. <i>Ecological Monographs</i> , 2018, 88, 505-525.	5.4	126
39	Building up biogeography: Pattern to process. <i>Journal of Biogeography</i> , 2018, 45, 1223-1230.	3.0	25
40	Evolutionary Rates Standardized for Evolutionary Space: Perspectives on Trait Evolution. <i>Trends in Ecology and Evolution</i> , 2018, 33, 379-389.	8.7	6
41	Widespread sampling biases in herbaria revealed from large-scale digitization. <i>New Phytologist</i> , 2018, 217, 939-955.	7.3	271
42	Unravelling the evolutionary origins of biogeographic assemblages. <i>Diversity and Distributions</i> , 2018, 24, 313-324.	4.1	22
43	Towards an eco-phylogenetic framework for infectious disease ecology. <i>Biological Reviews</i> , 2018, 93, 950-970.	10.4	63
44	Complexity is complicated and so too is comparing complexity metrics – A response to Mikula et al. (2018). <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 2836-2838.	2.3	3
45	On the relationship between phylogenetic diversity and trait diversity. <i>Ecology</i> , 2018, 99, 1473-1479.	3.2	136
46	Phylogenetic diversity patterns in Himalayan forests reveal evidence for environmental filtering of distinct lineages. <i>Ecosphere</i> , 2018, 9, e02157.	2.2	30
47	Factors influencing bacterial microbiome composition in a wild non-human primate community in Taï National Park, Côte d'Ivoire. <i>ISME Journal</i> , 2018, 12, 2559-2574.	9.8	31
48	Predicting loss of evolutionary history: Where are we?. <i>Biological Reviews</i> , 2017, 92, 271-291.	10.4	67
49	Habitat filtering not dispersal limitation shapes oceanic island floras: species assembly of the Galápagos archipelago. <i>Ecology Letters</i> , 2017, 20, 495-504.	6.4	83
50	Testing the reliability of standard and complementary DNA barcodes for the monocot subfamily Aloioideae from South Africa. <i>Genome</i> , 2017, 60, 337-347.	2.0	4
51	Why phylogenies do not always predict ecological differences. <i>Ecological Monographs</i> , 2017, 87, 535-551.	5.4	148
52	Combining phylogeny and co-occurrence to improve single species distribution models. <i>Global Ecology and Biogeography</i> , 2017, 26, 740-752.	5.8	33
53	Ten years of barcoding at the African Centre for DNA Barcoding. <i>Genome</i> , 2017, 60, 629-638.	2.0	18
54	Integrating biogeography, threat and evolutionary data to explore extinction crisis in the taxonomic group of cycads. <i>Ecology and Evolution</i> , 2017, 7, 2735-2746.	1.9	36

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55	Climate change may reduce the spread of non-native species. <i>Ecosphere</i> , 2017, 8, e01694.	2.2	53
56	Understanding the Processes Underpinning Patterns of Phylogenetic Regionalization. <i>Trends in Ecology and Evolution</i> , 2017, 32, 845-860.	8.7	84
57	A statistical estimator for determining the limits of contemporary and historic phenology. <i>Nature Ecology and Evolution</i> , 2017, 1, 1876-1882.	7.8	81
58	A guide to phylogenetic metrics for conservation, community ecology and macroecology. <i>Biological Reviews</i> , 2017, 92, 698-715.	10.4	570
59	Phylogenetic regionalization of marine plants reveals close evolutionary affinities among disjunct temperate assemblages. <i>Biological Conservation</i> , 2017, 213, 351-356.	4.1	17
60	Jointly modeling niche width and phylogenetic distance to explain species co-occurrence. <i>Ecosphere</i> , 2017, 8, e01891.	2.2	8
61	Tongues on the EDGE: language preservation priorities based on threat and lexical distinctiveness. <i>Royal Society Open Science</i> , 2017, 4, 171218.	2.4	2
62	A Complete Fossil-Calibrated Phylogeny of Seed Plant Families as a Tool for Comparative Analyses: Testing the "Time for Speciation" Hypothesis. <i>PLoS ONE</i> , 2016, 11, e0162907.	2.5	32
63	Influence of tree shape and evolutionary time-scale on phylogenetic diversity metrics. <i>Ecography</i> , 2016, 39, 913-920.	4.5	118
64	Opportunities for unlocking the potential of genomics for African trees. <i>New Phytologist</i> , 2016, 210, 772-778.	7.3	11
65	Response to Strona & Fattorini: are generalist parasites being lost from their hosts?. <i>Journal of Animal Ecology</i> , 2016, 85, 624-627.	2.8	1
66	Ground ice melt in the high Arctic leads to greater ecological heterogeneity. <i>Journal of Ecology</i> , 2016, 104, 114-124.	4.0	23
67	A novel phylogenetic regionalization of phytogeographical zones of southern Africa reveals their hidden evolutionary affinities. <i>Journal of Biogeography</i> , 2016, 43, 155-166.	3.0	58
68	Multiple routes underground? Frost alone cannot explain the evolution of underground trees. <i>New Phytologist</i> , 2016, 209, 910-912.	7.3	11
69	A Search for a Single DNA Barcode for Seagrasses of the World. , 2016, , 313-330.		3
70	Spiny plants, mammal browsers, and the origin of African savannas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5572-9.	7.1	132
71	Contrasting lineage-specific patterns conceal community phylogenetic structure in larger clades. <i>Journal of Vegetation Science</i> , 2016, 27, 69-79.	2.2	18
72	The macroecology of infectious diseases: a new perspective on global-scale drivers of pathogen distributions and impacts. <i>Ecology Letters</i> , 2016, 19, 1159-1171.	6.4	126

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73	Deconstructing the relationships between phylogenetic diversity and ecology: a case study on ecosystem functioning. <i>Ecology</i> , 2016, 97, 2212-2222.	3.2	34
74	Marine protected areas are insufficient to conserve global marine plant diversity. <i>Global Ecology and Biogeography</i> , 2016, 25, 324-334.	5.8	14
75	Reconsidering the Loss of Evolutionary History: How Does Non-random Extinction Prune the Tree-of-Life?. <i>Topics in Biodiversity and Conservation</i> , 2016, , 57-80.	1.0	13
76	Ecosystem Functions across Trophic Levels Are Linked to Functional and Phylogenetic Diversity. <i>PLoS ONE</i> , 2015, 10, e0117595.	2.5	60
77	DNA barcodes reveal microevolutionary signals in fire response trait in two legume genera. <i>AoB PLANTS</i> , 2015, 7, plv124.	2.3	8
78	Phylogenetic exploration of commonly used medicinal plants in South Africa. <i>Molecular Ecology Resources</i> , 2015, 15, 405-413.	4.8	47
79	Losing history: how extinctions prune features from the tree of life. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140006.	4.0	16
80	The path to host extinction can lead to loss of generalist parasites. <i>Journal of Animal Ecology</i> , 2015, 84, 978-984.	2.8	35
81	Disentangling dispersal from phylogeny in the colonization capacity of forest understorey plants. <i>Journal of Ecology</i> , 2015, 103, 175-183.	4.0	29
82	The phylogenetics of succession can guide restoration: an example from abandoned mine sites in the subarctic. <i>Journal of Applied Ecology</i> , 2015, 52, 1509-1517.	4.0	44
83	The predator-prey power law: Biomass scaling across terrestrial and aquatic biomes. <i>Science</i> , 2015, 349, aac6284.	12.6	235
84	Spatial incongruence among hotspots and complementary areas of tree diversity in southern Africa. <i>Diversity and Distributions</i> , 2015, 21, 769-780.	4.1	49
85	African Continent a Likely Origin of Family Combretaceae (Myrtales). <i>A Biogeographical View. Annual Research & Review in Biology</i> , 2015, 8, 1-20.	0.4	7
86	Nodule Worm Infection in Humans and Wild Primates in Uganda: Cryptic Species in a Newly Identified Region of Human Transmission. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2641.	3.0	63
87	Hidden Population Structure and Cross-species Transmission of Whipworms (<i>Trichuris</i> sp.) in Humans and Non-human Primates in Uganda. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3256.	3.0	64
88	Differences in evolutionary history translate into differences in invasion success of alien mammals in South Africa. <i>Ecology and Evolution</i> , 2014, 4, 2115-2123.	1.9	5
89	Evidence of constant diversification punctuated by a mass extinction in the African cycads. <i>Ecology and Evolution</i> , 2014, 4, 50-58.	1.9	28
90	A phylogenetic comparative study of flowering phenology along an elevational gradient in the Canadian subarctic. <i>International Journal of Biometeorology</i> , 2014, 58, 455-462.	3.0	41

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91	Glaciation as an historical filter of below-ground biodiversity. <i>Journal of Biogeography</i> , 2014, 41, 1204-1214.	3.0	44
92	Macroecological and macroevolutionary patterns of leaf herbivory across vascular plants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140555.	2.6	109
93	Predicting flowering phenology in a subarctic plant community. <i>Botany</i> , 2014, 92, 749-756.	1.0	9
94	Savanna fire and the origins of the "underground forests" of Africa. <i>New Phytologist</i> , 2014, 204, 201-214.	7.3	179
95	A Molecular Phylogeny and Generic Classification of Asphodelaceae subfamily Alooideae: A Final Resolution of the Prickly Issue of Polyphyly in the Aloooids?. <i>Systematic Botany</i> , 2014, 39, 55-74.	0.5	57
96	Morphological and molecular identification of filamentous <i>Aspergillus flavus</i> and <i>Aspergillus parasiticus</i> isolated from compound feeds in South Africa. <i>Food Microbiology</i> , 2014, 44, 180-184.	4.2	23
97	Phylogenetic conservatism in plant phenology. <i>Journal of Ecology</i> , 2013, 101, 1520-1530.	4.0	182
98	Phylogenetic position and revised classification of <i>Acacia</i> s.l. (Fabaceae: Mimosoideae) in Africa, including new combinations in <i>Vachellia</i> and <i>Senegalia</i> . <i>Botanical Journal of the Linnean Society</i> , 2013, 172, 500-523.	1.6	218
99	Temperature-dependent shifts in phenology contribute to the success of exotic species with climate change. <i>American Journal of Botany</i> , 2013, 100, 1407-1421.	1.7	140
100	Large herbivores favour species diversity but have mixed impacts on phylogenetic community structure in an African savanna ecosystem. <i>Journal of Ecology</i> , 2013, 101, 614-625.	4.0	27
101	Incorporating trnH-psbA to the core DNA barcodes improves significantly species discrimination within southern African Combretaceae. <i>ZooKeys</i> , 2013, 365, 129-147.	1.1	34
102	Efficacy of the core DNA barcodes in identifying processed and poorly conserved plant materials commonly used in South African traditional medicine. <i>ZooKeys</i> , 2013, 365, 215-233.	1.1	16
103	Revisiting the impacts of non-random extinction on the tree-of-life. <i>Biology Letters</i> , 2013, 9, 20130343.	2.3	30
104	The study of parasite sharing for surveillance of zoonotic diseases. <i>Environmental Research Letters</i> , 2013, 8, 015036.	5.2	20
105	Molecular and morphological analysis of subfamily Alooideae (Asphodelaceae) and the inclusion of <i>Chortolirion</i> in <i>Aloe</i> . <i>Taxon</i> , 2013, 62, 62-76.	0.7	36
106	A Global Trend towards the Loss of Evolutionarily Unique Species in Mangrove Ecosystems. <i>PLoS ONE</i> , 2013, 8, e66686.	2.5	54
107	How global extinctions impact regional biodiversity in mammals. <i>Biology Letters</i> , 2012, 8, 222-225.	2.3	28
108	Incompletely resolved phylogenetic trees inflate estimates of phylogenetic conservatism. <i>Ecology</i> , 2012, 93, 242-247.	3.2	75

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109	Using phylogenetic trees to test for character displacement: a model and an example from a desert mammal community. <i>Ecology</i> , 2012, 93, S44.	3.2	23
110	Fig-Frugivore Interactions Follow a Constrained Brownian Motion Model of Evolution in an Important Bird Area, West Africa. <i>Israel Journal of Ecology and Evolution</i> , 2012, 58, 39-51.	0.6	2
111	Incorporating Geographical and Evolutionary Rarity into Conservation Prioritization. <i>Conservation Biology</i> , 2012, 26, 593-601.	4.7	60
112	Sensitivity of Spring Phenology to Warming Across Temporal and Spatial Climate Gradients in Two Independent Databases. <i>Ecosystems</i> , 2012, 15, 1283-1294.	3.4	107
113	Different evolutionary histories underlie congruent species richness gradients of birds and mammals. <i>Journal of Biogeography</i> , 2012, 39, 825-841.	3.0	84
114	Exploring the phylogenetic history of mammal species richness. <i>Global Ecology and Biogeography</i> , 2012, 21, 1096-1105.	5.8	39
115	Phylogenetic Patterns of Extinction Risk in the Eastern Arc Ecosystems, an African Biodiversity Hotspot. <i>PLoS ONE</i> , 2012, 7, e47082.	2.5	33
116	DNA barcoding reveals micro-evolutionary changes and river system-level phylogeographic resolution of African silver catfish, <i>Schilbe intermedius</i> (Actinopterygii). <i>Ichthyologica Et Piscatoria</i> , 2012, 42, 307-320.	0.7	16
117	Quantifying Biodiversity: Does It Matter What We Measure?. , 2011, , 43-60.		18
118	Predicting phenology by integrating ecology, evolution and climate science. <i>Global Change Biology</i> , 2011, 17, 3633-3643.	9.5	314
119	NEUTRAL BIODIVERSITY THEORY CAN EXPLAIN THE IMBALANCE OF PHYLOGENETIC TREES BUT NOT THE TEMPO OF THEIR DIVERSIFICATION. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 1841-1850.	2.3	57
120	Phylogenetic diversity as a window into the evolutionary and biogeographic histories of present-day richness gradients for mammals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2414-2425.	4.0	145
121	The influence of past and present climate on the biogeography of modern mammal diversity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2526-2535.	4.0	60
122	Extinction Risk and Diversification Are Linked in a Plant Biodiversity Hotspot. <i>PLoS Biology</i> , 2011, 9, e1000620.	5.6	112
123	Rarest of the rare: advances in combining evolutionary distinctiveness and scarcity to inform conservation at biogeographical scales. <i>Diversity and Distributions</i> , 2010, 16, 376-385.	4.1	191
124	Phylogenetic diversity metrics for ecological communities: integrating species richness, abundance and evolutionary history. <i>Ecology Letters</i> , 2010, 13, 96-105.	6.4	340
125	Niche conservatism as an emerging principle in ecology and conservation biology. <i>Ecology Letters</i> , 2010, 13, 1310-1324.	6.4	1,387
126	Phylogeny, niche conservatism and the latitudinal diversity gradient in mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2131-2138.	2.6	219

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127	Quaternary Climate Change and the Geographic Ranges of Mammals. <i>American Naturalist</i> , 2009, 174, 297-307.	2.1	107
128	Phylogenetic trees and the future of mammalian biodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11556-11563.	7.1	131
129	Phylogeny and geography predict pathogen community similarity in wild primates and humans. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1695-1701.	2.6	254
130	Preserving the evolutionary potential of floras in biodiversity hotspots. <i>Nature</i> , 2007, 445, 757-760.	27.8	787
131	Grenyer et al. reply. <i>Nature</i> , 2007, 450, E20-E20.	27.8	3
132	Global distribution and conservation of rare and threatened vertebrates. <i>Nature</i> , 2006, 444, 93-96.	27.8	462
133	Environment, Area, and Diversification in the Species-Rich Flowering Plant Family Iridaceae. <i>American Naturalist</i> , 2005, 166, 418-425.	2.1	42
134	Environmental energy and evolutionary rates in flowering plants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2195-2200.	2.6	194
135	Darwin's abominable mystery: Insights from a supertree of the angiosperms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1904-1909.	7.1	547
136	Environmental causes for plant biodiversity gradients. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 1645-1656.	4.0	44
137	Predicting future speciation. , 2001, , 400-418.		9