Barnabas H Daru

List of Publications by Year
in descending order

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	Niche conservatism as an emerging principle in ecology and conservation biology. Ecology Letters, 2010, 13, 1310-1324.	6.4	1,387
2	Preserving the evolutionary potential of floras in biodiversity hotspots. Nature, 2007, 445, 757-760.	27.8	787
3	A guide to phylogenetic metrics for conservation, community ecology and macroecology. Biological Reviews, 2017, 92, 698-715.	10.4	570
4	Darwin's abominable mystery: Insights from a supertree of the angiosperms. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1904-1909.	7.1	547
5	Global distribution and conservation of rare and threatened vertebrates. Nature, 2006, 444, 93-96.	27.8	462
6	Phylogenetic diversity metrics for ecological communities: integrating species richness, abundance and evolutionary history. Ecology Letters, 2010, 13, 96-105.	6.4	340
7	Predicting phenology by integrating ecology, evolution and climate science. Global Change Biology, 2011, 17, 3633-3643.	9.5	314
8	Widespread sampling biases in herbaria revealed from largeâ€scale digitization. New Phytologist, 2018, 217, 939-955.	7.3	271
9	Phylogeny and geography predict pathogen community similarity in wild primates and humans. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1695-1701.	2.6	254
10	The predator-prey power law: Biomass scaling across terrestrial and aquatic biomes. Science, 2015, 349, aac6284.	12.6	235
11	Phylogeny, niche conservatism and the latitudinal diversity gradient in mammals. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2131-2138.	2.6	219
12	Phylogenetic position and revised classification of<i>Acacia s.l.</i>(Fabaceae: Mimosoideae) in Africa, including new combinations in<i>Vachellia</i>and<i>Senegalia</i>. Botanical Journal of the Linnean Society, 2013, 172, 500-523.	1.6	218
13	Environmental energy and evolutionary rates in flowering plants. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 2195-2200.	2.6	194
14	Rarest of the rare: advances in combining evolutionary distinctiveness and scarcity to inform conservation at biogeographical scales. Diversity and Distributions, 2010, 16, 376-385.	4.1	191
15	Phylogenetic conservatism in plant phenology. Journal of Ecology, 2013, 101, 1520-1530.	4.0	182
16	Savanna fire and the origins of the â€˜underground forestsâ€™ of <scp>A</scp>frica. New Phytologist, 2014, 204, 201-214.	7.3	179
17	Biological collections for understanding biodiversity in the Anthropocene. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20170386.	4.0	161
18	Why phylogenies do not always predict ecological differences. Ecological Monographs, 2017, 87, 535-551.	5.4	148

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19	Phylogenetic diversity as a window into the evolutionary and biogeographic histories of present-day richness gradients for mammals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2414-2425.	4.0	145
20	Temperatureâ€dependent shifts in phenology contribute to the success of exotic species with climate change. American Journal of Botany, 2013, 100, 1407-1421.	1.7	140
21	On the relationship between phylogenetic diversity and trait diversity. Ecology, 2018, 99, 1473-1479.	3.2	136
22	Spiny plants, mammal browsers, and the origin of African savannas. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5572-9.	7.1	132
23	Phylogenetic trees and the future of mammalian biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11556-11563.	7.1	131
24	The macroecology of infectious diseases: a new perspective on globalâ€scale drivers of pathogen distributions and impacts. Ecology Letters, 2016, 19, 1159-1171.	6.4	126
25	The unrealized potential of herbaria for global change biology. Ecological Monographs, 2018, 88, 505-525.	5.4	126
26	Influence of tree shape and evolutionary timeâ€scale on phylogenetic diversity metrics. Ecography, 2016, 39, 913-920.	4.5	118
27	Extinction Risk and Diversification Are Linked in a Plant Biodiversity Hotspot. PLoS Biology, 2011, 9, e1000620.	5.6	112
28	Macroecological and macroevolutionary patterns of leaf herbivory across vascular plants. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140555.	2.6	109
29	Quaternary Climate Change and the Geographic Ranges of Mammals. American Naturalist, 2009, 174, 297-307.	2.1	107
30	Sensitivity of Spring Phenology to Warming Across Temporal and Spatial Climate Gradients in Two Independent Databases. Ecosystems, 2012, 15, 1283-1294.	3.4	107
31	Different evolutionary histories underlie congruent species richness gradients of birds and mammals. Journal of Biogeography, 2012, 39, 825-841.	3.0	84
32	Understanding the Processes Underpinning Patterns of Phylogenetic Regionalization. Trends in Ecology and Evolution, 2017, 32, 845-860.	8.7	84
33	Habitat filtering not dispersal limitation shapes oceanic island floras: species assembly of the GalÃ¡pagos archipelago. Ecology Letters, 2017, 20, 495-504.	6.4	83
34	A statistical estimator for determining the limits of contemporary and historic phenology. Nature Ecology and Evolution, 2017, 1, 1876-1882.	7.8	81
35	Incompletely resolved phylogenetic trees inflate estimates of phylogenetic conservatism. Ecology, 2012, 93, 242-247.	3.2	75
36	phyloregion: R package for biogeographical regionalization and macroecology. Methods in Ecology and Evolution, 2020, 11, 1483-1491.	5.2	70

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37	Predicting loss of evolutionary history: Where are we?. Biological Reviews, 2017, 92, 271-291.	10.4	67
38	Hidden Population Structure and Cross-species Transmission of Whipworms (Trichuris sp.) in Humans and Non-human Primates in Uganda. PLoS Neglected Tropical Diseases, 2014, 8, e3256.	3.0	64
39	Invasive species differ in key functional traits from native and nonâ€invasive alien plant species. Journal of Vegetation Science, 2019, 30, 994-1006.	2.2	64
40	Nodule Worm Infection in Humans and Wild Primates in Uganda: Cryptic Species in a Newly Identified Region of Human Transmission. PLoS Neglected Tropical Diseases, 2014, 8, e2641.	3.0	63
41	Towards an ecoâ€phylogenetic framework for infectious disease ecology. Biological Reviews, 2018, 93, 950-970.	10.4	63
42	The influence of past and present climate on the biogeography of modern mammal diversity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2526-2535.	4.0	60
43	Incorporating Geographical and Evolutionary Rarity into Conservation Prioritization. Conservation Biology, 2012, 26, 593-601.	4.7	60
44	Ecosystem Functions across Trophic Levels Are Linked to Functional and Phylogenetic Diversity. PLoS ONE, 2015, 10, e0117595.	2.5	60
45	A novel phylogenetic regionalization of phytogeographical zones of southern Africa reveals their hidden evolutionary affinities. Journal of Biogeography, 2016, 43, 155-166.	3.0	58
46	NEUTRAL BIODIVERSITY THEORY CAN EXPLAIN THE IMBALANCE OF PHYLOGENETIC TREES BUT NOT THE TEMPO OF THEIR DIVERSIFICATION. Evolution; International Journal of Organic Evolution, 2011, 65, 1841-1850.	2.3	57
47	A Molecular Phylogeny and Generic Classification of Asphodelaceae subfamily Alooideae: A Final Resolution of the Prickly Issue of Polyphyly in the Alooids?. Systematic Botany, 2014, 39, 55-74.	0.5	57
48	Widespread homogenization of plant communities in the Anthropocene. Nature Communications, 2021, 12, 6983.	12.8	57
49	Herbarium specimens reveal increasing herbivory over the past century. Journal of Ecology, 2019, 107, 105-117.	4.0	56
50	Endemism patterns are scale dependent. Nature Communications, 2020, 11, 2115.	12.8	56
51	Spatial overlaps between the global protected areas network and terrestrial hotspots of evolutionary diversity. Global Ecology and Biogeography, 2019, 28, 757-766.	5.8	54
52	A Global Trend towards the Loss of Evolutionarily Unique Species in Mangrove Ecosystems. PLoS ONE, 2013, 8, e66686.	2.5	54
53	Climate change may reduce the spread of nonâ€native species. Ecosphere, 2017, 8, e01694.	2.2	53
54	Spatial incongruence among hotspots and complementary areas of tree diversity in southern <scp>A</scp>frica. Diversity and Distributions, 2015, 21, 769-780.	4.1	49

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55	Phylogenetic exploration of commonly used medicinal plants in <scp>S</scp>outh <scp>A</scp>frica. Molecular Ecology Resources, 2015, 15, 405-413.	4.8	47
56	Environmental causes for plant biodiversity gradients. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 1645-1656.	4.0	44
57	Glaciation as an historical filter of belowâ€ground biodiversity. Journal of Biogeography, 2014, 41, 1204-1214.	3.0	44
58	The phylogenetics of succession can guide restoration: an example from abandoned mine sites in the subarctic. Journal of Applied Ecology, 2015, 52, 1509-1517.	4.0	44
59	Environment, Area, and Diversification in the Speciesâ€Rich Flowering Plant Family Iridaceae. American Naturalist, 2005, 166, 418-425.	2.1	42
60	A phylogenetic comparative study of flowering phenology along an elevational gradient in the Canadian subarctic. International Journal of Biometeorology, 2014, 58, 455-462.	3.0	41
61	Exploring the phylogenetic history of mammal species richness. Global Ecology and Biogeography, 2012, 21, 1096-1105.	5.8	39
62	Museum specimens provide novel insights into changing plantâ€“herbivore interactions. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20170393.	4.0	37
63	Molecular and morphological analysis of subfamily Alooideae (Asphodelaceae) and the inclusion of <i>Chortolirion</i> in <i>Aloe</i>. Taxon, 2013, 62, 62-76.	0.7	36
64	Integrating biogeography, threat and evolutionary data to explore extinction crisis in the taxonomic group of cycads. Ecology and Evolution, 2017, 7, 2735-2746.	1.9	36
65	The path to host extinction can lead to loss of generalist parasites. Journal of Animal Ecology, 2015, 84, 978-984.	2.8	35
66	Ecophylogenetics redux. Ecology Letters, 2021, 24, 1073-1088.	6.4	35
67	Global camera trap synthesis highlights the importance of protected areas in maintaining mammal diversity. Conservation Letters, 2022, 15, .	5.7	35
68	Incorporating trnH-psbA to the core DNA barcodes improves significantly species discrimination within southern African Combretaceae. ZooKeys, 2013, 365, 129-147.	1.1	34
69	Deconstructing the relationships between phylogenetic diversity and ecology: a case study on ecosystem functioning. Ecology, 2016, 97, 2212-2222.	3.2	34
70	Global macroevolution and macroecology of passerine song. Evolution; International Journal of Organic Evolution, 2018, 72, 944-960.	2.3	34
71	Climate change and the future restructuring of Neotropical anuran biodiversity. Ecography, 2020, 43, 222-235.	4.5	34
72	Combining phylogeny and coâ€occurrence to improve single species distribution models. Global Ecology and Biogeography, 2017, 26, 740-752.	5.8	33

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73	Phylogenetic Patterns of Extinction Risk in the Eastern Arc Ecosystems, an African Biodiversity Hotspot. PLoS ONE, 2012, 7, e47082.	2.5	33
74	A Complete Fossil-Calibrated Phylogeny of Seed Plant Families as a Tool for Comparative Analyses: Testing the â€˜Time for Speciationâ€™ Hypothesis. PLoS ONE, 2016, 11, e0162907.	2.5	32
75	Factors influencing bacterial microbiome composition in a wild non-human primate community in TaÃ¯ National Park, CÃ´te dâ€™Ivoire. ISME Journal, 2018, 12, 2559-2574.	9.8	31
76	Revisiting the impacts of non-random extinction on the tree-of-life. Biology Letters, 2013, 9, 20130343.	2.3	30
77	Phylogenetic diversity patterns in Himalayan forests reveal evidence for environmental filtering of distinct lineages. Ecosphere, 2018, 9, e02157.	2.2	30
78	Bias assessments to expand research harnessing biological collections. Trends in Ecology and Evolution, 2021, 36, 1071-1082.	8.7	30
79	Disentangling dispersal from phylogeny in the colonization capacity of forest understorey plants. Journal of Ecology, 2015, 103, 175-183.	4.0	29
80	How global extinctions impact regional biodiversity in mammals. Biology Letters, 2012, 8, 222-225.	2.3	28
81	Evidence of constant diversification punctuated by a mass extinction in the African cycads. Ecology and Evolution, 2014, 4, 50-58.	1.9	28
82	A novel proof of concept for capturing the diversity of endophytic fungi preserved in herbarium specimens. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20170395.	4.0	28
83	The macroecology and macroevolution of plant species at risk. New Phytologist, 2019, 222, 708-713.	7.3	28
84	Large herbivores favour species diversity but have mixed impacts on phylogenetic community structure in an <scp>A</scp>frican savanna ecosystem. Journal of Ecology, 2013, 101, 614-625.	4.0	27
85	Towards a phylogenetic ecology of plant pests and pathogens. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200359.	4.0	27
86	Assessing amongâ€lineage variability in phylogenetic imputation of functional trait datasets. Ecography, 2018, 41, 1740-1749.	4.5	26
87	Identifying biodiversity knowledge gaps for conserving South Africaâ€™s endemic flora. Biodiversity and Conservation, 2020, 29, 2803-2819.	2.6	26
88	Building up biogeography: Pattern to process. Journal of Biogeography, 2018, 45, 1223-1230.	3.0	25
89	Using phylogenetic trees to test for character displacement: a model and an example from a desert mammal community. Ecology, 2012, 93, S44.	3.2	23
90	Morphological and molecular identification of filamentous Aspergillus flavus and Aspergillus parasiticus isolated from compound feeds in South Africa. Food Microbiology, 2014, 44, 180-184.	4.2	23

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91	Ground ice melt in the high Arctic leads to greater ecological heterogeneity. Journal of Ecology, 2016, 104, 114-124.	4.0	23
92	Phenological sensitivity to temperature mediates herbivory. Global Change Biology, 2021, 27, 2315-2327.	9.5	23
93	Unravelling the evolutionary origins of biogeographic assemblages. Diversity and Distributions, 2018, 24, 313-324.	4.1	22
94	The study of parasite sharing for surveillance of zoonotic diseases. Environmental Research Letters, 2013, 8, 015036.	5.2	20
95	Forecasting parasite sharing under climate change. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200360.	4.0	19
96	Quantifying Biodiversity: Does It Matter What We Measure?. , 2011, , 43-60.		18
97	Contrasting lineageâ€specific patterns conceal community phylogenetic structure in larger clades. Journal of Vegetation Science, 2016, 27, 69-79.	2.2	18
98	Ten years of barcoding at the African Centre for DNA Barcoding. Genome, 2017, 60, 629-638.	2.0	18
99	Phylogenetic regionalization of marine plants reveals close evolutionary affinities among disjunct temperate assemblages. Biological Conservation, 2017, 213, 351-356.	4.1	17
100	Temperature controls phenology in continuously flowering <i>Protea</i> species of subtropical Africa. Applications in Plant Sciences, 2019, 7, e01232.	2.1	17
101	Efficacy of the core DNA barcodes in identifying processed and poorly conserved plant materials commonly used in South African traditional medicine. ZooKeys, 2013, 365, 215-233.	1.1	16
102	Losing history: how extinctions prune features from the tree of life. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140006.	4.0	16
103	DNA barcoding reveals micro-evolutionary changes and river system-level phylogeographic resolution of African silver catfish, <I>Schilbe intermedius</I> (Actinopterygii:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Ichthyologica Et Piscatoria, 2012, 42, 307-320.	0.7	16
104	Phylogenetic and functional clustering illustrate the roles of adaptive radiation and dispersal filtering in jointly shaping lateâ€Quaternary mammal assemblages on oceanic islands. Ecology Letters, 2022, 25, 1250-1262.	6.4	16
105	The ecology and evolution of seed predation by Darwin's finches on <i>Tribulus cistoides</i> on the GalÃ¡pagos Islands. Ecological Monographs, 2020, 90, e01392.	5.4	15
106	Savanna tree evolutionary ages inform the reconstruction of the paleoenvironment of our hominin ancestors. Scientific Reports, 2020, 10, 12430.	3.3	15
107	Marine protected areas are insufficient to conserve global marine plant diversity. Global Ecology and Biogeography, 2016, 25, 324-334.	5.8	14
108	The interaction of phylogeny and community structure: Linking the community composition and trait evolutionÂof clades. Global Ecology and Biogeography, 2019, 28, 1499-1511.	5.8	14

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109	The ghost of hosts past: impacts of host extinction on parasite specificity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200351.	4.0	14
110	Reconsidering the Loss of Evolutionary History: How Does Non-random Extinction Prune the Tree-of-Life?. Topics in Biodiversity and Conservation, 2016, , 57-80.	1.0	13
111	Opportunities for unlocking the potential of genomics for <scp>A</scp>frican trees. New Phytologist, 2016, 210, 772-778.	7.3	11
112	Multiple routes underground? Frost alone cannot explain the evolution of underground trees. New Phytologist, 2016, 209, 910-912.	7.3	11
113	Host phylogenetic diversity predicts the global extent and composition of tree pests. Ecology Letters, 2022, 25, 101-112.	6.4	11
114	Predicting future speciation. , 2001, , 400-418.		9
115	Predicting flowering phenology in a subarctic plant community. Botany, 2014, 92, 749-756.	1.0	9
116	Impediments to Understanding Seagrassesâ€™ Response to Global Change. Frontiers in Marine Science, 2021, 8, .	2.5	9
117	DNA barcodes reveal microevolutionary signals in fire response trait in two legume genera. AoB PLANTS, 2015, 7, plv124.	2.3	8
118	Jointly modeling niche width and phylogenetic distance to explain species coâ€occurrence. Ecosphere, 2017, 8, e01891.	2.2	8
119	Opposing macroevolutionary and traitâ€mediated patterns of threat and naturalisation in flowering plants. Ecology Letters, 2021, 24, 1237-1250.	6.4	8
120	African Continent a Likely Origin of Family Combretaceae (Myrtales). A Biogeographical View. Annual Research & Review in Biology, 2015, 8, 1-20.	0.4	7
121	Evolutionary Rates Standardized for Evolutionary Space: Perspectives on Trait Evolution. Trends in Ecology and Evolution, 2018, 33, 379-389.	8.7	6
122	Phylogenetically weighted regression: A method for modelling nonâ€stationarity on evolutionary trees. Global Ecology and Biogeography, 2019, 28, 275-285.	5.8	6
123	Identifying co-phylogenetic hotspots for zoonotic disease. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200363.	4.0	6
124	Differences in evolutionary history translate into differences in invasion success of alien mammals in South Africa. Ecology and Evolution, 2014, 4, 2115-2123.	1.9	5
125	A global analysis of tree pests and emerging pest threats. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113298119.	7.1	5
126	Detecting the phylogenetic signal of glacial refugia in a bryodiversity hotspot outside the tropics. Diversity and Distributions, 2022, 28, 2681-2695.	4.1	5

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127	Testing the reliability of standard and complementary DNA barcodes for the monocot subfamily Alooideae from South Africa. Genome, 2017, 60, 337-347.	2.0	4
128	A comparison of phylogenetic and species beta diversity measures describing vegetation assemblages along an elevation gradient. Journal of Vegetation Science, 2019, 30, 98-107.	2.2	4
129	Assessing the phylogenetic host breadth of millet pathogens and its implication for disease spillover. Ecological Solutions and Evidence, 2021, 2, e12040.	2.0	4
130	Grenyer et al. reply. Nature, 2007, 450, E20-E20.	27.8	3
131	A Search for a Single DNA Barcode for Seagrasses of the World. , 2016, , 313-330.		3
132	Complexity is complicated and so too is comparing complexity metricsâ€A response to Mikula etÂal. (2018). Evolution; International Journal of Organic Evolution, 2018, 72, 2836-2838.	2.3	3
133	Fig-Frugivore Interactions Follow a Constrained Brownian Motion Model of Evolution in an Important Bird Area, West Africa. Israel Journal of Ecology and Evolution, 2012, 58, 39-51.	0.6	2
134	Tongues on the EDGE: language preservation priorities based on threat and lexical distinctiveness. Royal Society Open Science, 2017, 4, 171218.	2.4	2
135	Exploring a new way to think about climate regions. ELife, 2021, 10, .	6.0	2
136	Migratory birds aid the redistribution of plants to new climates. Nature, 2021, 595, 34-36.	27.8	2
137	Response to Strona & Fattorini: are generalist parasites being lost from their hosts?. Journal of Animal Ecology, 2016, 85, 624-627.	2.8	1