William J Baker

List of Publications by Year
in descending order

140 papers	8,253 citations	61984 43 h-index	58581 82 g-index
150 all docs	150 docs citations	150 times ranked	10451 citing authors

#	Article	IF	Citations
1	A Comprehensive Phylogenomic Platform for Exploring the Angiosperm Tree of Life. Systematic Biology, 2022, 71, 301-319.	5.6	107
2	Uses and benefits of digital sequence information from plant genetic resources: Lessons learnt from botanical collections. Plants People Planet, 2022, 4, 33-43.	3.3	10
3	Standards recommendations for the Earth BioGenome Project. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	33
4	The Implications of Incongruence between Gene Tree and Species Tree Topologies for Divergence Time Estimation. Systematic Biology, 2022, 71, 1124-1146.	5.6	6
5	Chapitre 45. Palmiers (Arecaceae) deÂMadagascar. , 2022, , 671-681.		0
6	The Cenozoic history of palms: Global diversification, biogeography and the decline of megathermal forests. Global Ecology and Biogeography, 2022, 31, 425-439.	5.8	16
7	Benefits of alignment qualityâ€control processing steps and an Angiosperms353 phylogenomics pipeline applied to the Celastrales. Cladistics, 2022, 38, 595-611.	3.3	1
8	Global variation in diversification rate and species richness are unlinked in plants. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	29
9	Combination of Sanger and target-enrichment markers supports revised generic delimitation in the problematic â€˜Urera cladeâ€™ of the nettle family (Urticaceae). Molecular Phylogenetics and Evolution, 2021, 158, 107008.	2.7	11
10	Resolving generic limits in Cyperaceae tribe Abildgaardieae using targeted sequencing. Botanical Journal of the Linnean Society, 2021, 196, 163-187.	1.6	10
11	Systematics and Evolution of the Genus Phoenix: Towards Understanding Date Palm Origins. Compendium of Plant Genomes, 2021, , 29-54.	0.5	2
12	Targeted sequencing supports morphology and embryo features in resolving the classification of Cyperaceae tribe Fuireneae s.l.. Journal of Systematics and Evolution, 2021, 59, 809-832.	3.1	10
13	A robust phylogenomic framework for the calamoid palms. Molecular Phylogenetics and Evolution, 2021, 157, 107067.	2.7	13
14	Botanical Monography in the Anthropocene. Trends in Plant Science, 2021, 26, 433-441.	8.8	23
15	Lineageâ€specific vs. universal: A comparison of the Compositae1061 and Angiosperms353 enrichment panels in the sunflower family. Applications in Plant Sciences, 2021, 9, .	2.1	19
16	A new classification of Cyperaceae (Poales) supported by phylogenomic data. Journal of Systematics and Evolution, 2021, 59, 852-895.	3.1	46
17	Molecular Clocks and Archeogenomics of a Late Period Egyptian Date Palm Leaf Reveal Introgression from Wild Relatives and Add Timestamps on the Domestication. Molecular Biology and Evolution, 2021, 38, 4475-4492.	8.9	14
18	New targets acquired: Improving locus recovery from the Angiosperms353 probe set. Applications in Plant Sciences, 2021, 9, .	2.1	36

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19	Joining forces in Ochnaceae phylogenomics: a tale of two targeted sequencing probe kits. American Journal of Botany, 2021, 108, 1201-1216.	1.7	36
20	The best of both worlds: Combining lineageâ€specific and universal bait sets in targetâ€enrichment hybridization reactions. Applications in Plant Sciences, 2021, 9, .	2.1	22
21	A comprehensive phylogenomic study of the monocot order Commelinales, with a new classification of Commelinaceae. American Journal of Botany, 2021, 108, 1066-1086.	1.7	16
22	Settling a family feud: a highâ€level phylogenomic framework for the Gentianales based on 353 nuclear genes and partial plastomes. American Journal of Botany, 2021, 108, 1143-1165.	1.7	34
23	An updated infraâ€familial classification of Sapindaceae based on targeted enrichment data. American Journal of Botany, 2021, 108, 1234-1251.	1.7	20
24	A nuclear phylogenomic study of the angiosperm order Myrtales, exploring the potential and limitations of the universal Angiosperms353 probe set. American Journal of Botany, 2021, 108, 1087-1111.	1.7	53
25	Exploring Angiosperms353: Developing and applying a universal toolkit for flowering plant phylogenomics. Applications in Plant Sciences, 2021, 9, .	2.1	13
26	Relative performance of customized and universal probe sets in target enrichment: A case study in subtribe Malinae. Applications in Plant Sciences, 2021, 9, e11442.	2.1	20
27	Hundreds of nuclear and plastid loci yield novel insights into orchid relationships. American Journal of Botany, 2021, 108, 1166-1180.	1.7	35
28	A higherâ€level nuclear phylogenomic study of the carrot family (Apiaceae). American Journal of Botany, 2021, 108, 1252-1269.	1.7	22
29	Exploring Angiosperms353: An open, community toolkit for collaborative phylogenomic research on flowering plants. American Journal of Botany, 2021, 108, 1059-1065.	1.7	36
30	Phylogenomics and biogeography of Cunoniaceae (Oxalidales) with complete generic sampling and taxonomic realignments. American Journal of Botany, 2021, 108, 1181-1200.	1.7	17
31	Testing tropical biogeographical regions using the palm family as a model clade. Journal of Biogeography, 2021, 48, 2502-2511.	3.0	1
32	Repeated parallel losses of inflexed stamens in Moraceae: Phylogenomics and generic revision of the tribe Moreae and the reinstatement of the tribe Olmedieae (Moraceae). Taxon, 2021, 70, 946-988.	0.7	12
33	The demographic history of Madagascan micro-endemics: have rare species always been rare?. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210957.	2.6	7
34	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
35	New Guinea has the worldâ€™s richest island flora. Nature, 2020, 584, 579-583.	27.8	108
36	On the origin of giant seeds: the macroevolution of the double coconut (Lodoicea maldivica) and its relatives (Borasseae, Arecaceae). New Phytologist, 2020, 228, 1134-1148.	7.3	15

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37	The global abundance of tree palms. Global Ecology and Biogeography, 2020, 29, 1495-1514.	5.8	62
38	Population modelling and genetics of a critically endangered Madagascan palm Tahina spectabilis. Ecology and Evolution, 2020, 10, 3120-3137.	1.9	6
39	Speciation in Howea Palms Occurred in Sympatry, Was Preceded by Ancestral Admixture, and Was Associated with Edaphic and Phenological Adaptation. Molecular Biology and Evolution, 2019, 36, 2682-2697.	8.9	17
40	Ecological speciation in sympatric palms: 3. Genetic map reveals genomic islands underlying species divergence in Howea. Evolution; International Journal of Organic Evolution, 2019, 73, 1986-1995.	2.3	13
41	Ecological speciation in sympatric palms: 4. Demographic analyses support speciation of Howea in the face of high gene flow. Evolution; International Journal of Organic Evolution, 2019, 73, 1996-2002.	2.3	14
42	Hyb-Seq for Flowering Plant Systematics. Trends in Plant Science, 2019, 24, 887-891.	8.8	98
43	A monograph of Heterospathe (Areceae, Arecaceae) in New Guinea. Phytotaxa, 2019, 413, 71-116.	0.3	0
44	PalmTraits 1.0, a species-level functional trait database of palms worldwide. Scientific Data, 2019, 6, 178.	5.3	51
45	Factors Affecting Targeted Sequencing of 353 Nuclear Genes From Herbarium Specimens Spanning the Diversity of Angiosperms. Frontiers in Plant Science, 2019, 10, 1102.	3.6	124
46	Embolism resistance in petioles and leaflets of palms. Annals of Botany, 2019, 124, 1173-1183.	2.9	11
47	A taxonomic revision of the myrmecophilous species of the rattan genus Korthalsia (Arecaceae). Kew Bulletin, 2019, 74, 1.	0.9	3
48	A Universal Probe Set for Targeted Sequencing of 353 Nuclear Genes from Any Flowering Plant Designed Using k-Medoids Clustering. Systematic Biology, 2019, 68, 594-606.	5.6	371
49	Tackling Rapid Radiations With Targeted Sequencing. Frontiers in Plant Science, 2019, 10, 1655.	3.6	106
50	Earth BioGenome Project: Sequencing life for the future of life. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4325-4333.	7.1	652
51	A monograph of the Nengella group of Hydriastele (Arecaceae). Kew Bulletin, 2018, 73, 1.	0.9	1
52	A roadmap for global synthesis of the plant tree of life. American Journal of Botany, 2018, 105, 614-622.	1.7	38
53	Low extinction risk for an important plant resource: Conservation assessments of continental African palms (Arecaceae/Palmae). Biological Conservation, 2018, 221, 323-333.	4.1	30
54	A monograph of the Hydriastele wendlandiana group (Arecaceae: Hydriastele). Kew Bulletin, 2018, 73, 1.	0.9	3

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55	Arbuscular mycorrhizal fungi promote coexistence and niche divergence of sympatric palm species on a remote oceanic island. New Phytologist, 2018, 217, 1254-1266.	7.3	36
56	Four new species of Dypsis (Arecaceae: Arecoideae) from Madagascar. Kew Bulletin, 2018, 73, 1.	0.9	1
57	A monograph of Hydriastele (Areceae, Arecaceae) in New Guinea and Australia. Phytotaxa, 2018, 370, 1.	0.3	2
58	Developing a new variety of kentia palms (Howea forsteriana): up-regulation of cytochrome b561 and chalcone synthase is associated with red colouration of the stems. Botany Letters, 2018, 165, 241-247.	1.4	0
59	To adapt or go extinct? The fate of megafaunal palm fruits under past global change. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180882.	2.6	50
60	Taxonomy based on science is necessary for global conservation. PLoS Biology, 2018, 16, e2005075.	5.6	149
61	Plant phylogeny as a window on the evolution of hyperdiversity in the tropical rainforest biome. New Phytologist, 2017, 214, 1408-1422.	7.3	64
62	More new rattans from New Guinea and the Solomon Islands (Calamus, Arecaceae). Phytotaxa, 2017, 305, 61.	0.3	3
63	Morphometric Analysis of the Rattan Calamus javensis Complex (Arecaceae: Calamoideae). Systematic Botany, 2017, 42, 494-506.	0.5	5
64	Frugivory-related traits promote speciation of tropical palms. Nature Ecology and Evolution, 2017, 1, 1903-1911.	7.8	77
65	The palm family (Arecaceae): a microcosm of sexual system evolution. Botanical Journal of the Linnean Society, 2016, 182, 376-388.	1.6	26
66	Plastid genomes reveal support for deep phylogenetic relationships and extensive rate variation among palms and other commelinid monocots. New Phytologist, 2016, 209, 855-870.	7.3	181
67	An all-evidence species-level supertree for the palms (Arecaceae). Molecular Phylogenetics and Evolution, 2016, 100, 57-69.	2.7	75
68	Collections-based research in the genomic era. Biological Journal of the Linnean Society, 2016, 117, 5-10.	1.6	76
69	Species limits, geographical distribution and genetic diversity inJohannesteijsmannia(Arecaceae). Botanical Journal of the Linnean Society, 2016, 182, 318-347.	1.6	9
70	Phylogenetics and diversification history of African rattans (Calamoideae, Ancistrophyllinae). Botanical Journal of the Linnean Society, 2016, 182, 256-271.	1.6	23
71	BeyondGenera Palmarum: progress and prospects in palm systematics. Botanical Journal of the Linnean Society, 2016, 182, 207-233.	1.6	114
72	A genus-level phylogenetic linear sequence of monocots. Taxon, 2015, 64, 552-581.	0.7	13

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73	Corrections to Phytotaxa 197: A revised delimitation of the rattan genus Calamus (Arecaceae). Phytotaxa, 2015, 204, 235.	0.3	0
74	A revised delimitation of the rattan genus Calamus (Arecaceae). Phytotaxa, 2015, 197, 139.	0.3	16
75	Global diversification of a tropical plant growth form: environmental correlates and historical contingencies in climbing palms. Frontiers in Genetics, 2015, 5, 452.	2.3	37
76	Palm snorkelling: leaf bases as aeration structures in the mangrove palm (Nypa fruticans). Botanical Journal of the Linnean Society, 2014, 174, 257-270.	1.6	5
77	A phylogenetic analysis of palm subtribe Archontophoenicinae (Arecaceae) based on 14 DNA regions. Botanical Journal of the Linnean Society, 2014, 175, 469-481.	1.6	6
78	Comprehensive Red List Assessment Reveals Exceptionally High Extinction Risk to Madagascar Palms. PLoS ONE, 2014, 9, e103684.	2.5	27
79	Evaluation of genetic isolation within an island flora reveals unusually widespread local adaptation and supports sympatric speciation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130342.	4.0	42
80	Three new genera of arecoid palm (Arecaceae) from eastern Malesia. Kew Bulletin, 2014, 69, 1.	0.9	9
81	Comparative development of the rattan ocrea, a structural innovation that facilitates antâ€“plant mutualism. Plant Systematics and Evolution, 2014, 300, 1973-1983.	0.9	2
82	Evolution of stamen number in Ptychospermatinae (Arecaceae): Insights from a new molecular phylogeny of the subtribe. Molecular Phylogenetics and Evolution, 2014, 76, 227-240.	2.7	6
83	(2279) Proposal to reject the name Areca glandiformis (Arecaceae). Taxon, 2014, 63, 434-435.	0.7	0
84	New rattans from New Guinea (Calamus, Arecaceae). Phytotaxa, 2014, 163, 181.	0.3	10
85	Calamus kebariensis (Arecaceae)â€”a new montane rattan from New Guinea. Phytotaxa, 2014, 163, 235.	0.3	3
86	Tropical rain forest evolution: palms as a model group. BMC Biology, 2013, 11, 48.	3.8	81
87	Palaeo-precipitation is a major determinant of palm species richness patterns across Madagascar: a tropical biodiversity hotspot. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20123048.	2.6	45
88	Global biogeography and diversification of palms sheds light on the evolution of tropical lineages. II. Diversification history and origin of regional assemblages. Journal of Biogeography, 2013, 40, 286-298.	3.0	96
89	Global biogeography and diversification of palms sheds light on the evolution of tropical lineages. I. Historical biogeography. Journal of Biogeography, 2013, 40, 274-285.	3.0	147
90	Dispersal and niche evolution jointly shape the geographic turnover of phylogenetic clades across continents. Scientific Reports, 2013, 3, 1164.	3.3	66

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91	Miocene Dispersal Drives Island Radiations in the Palm Tribe Trachycarpeae (Arecaceae). Systematic Biology, 2012, 61, 426-442.	5.6	77
92	Biogeography and distribution patterns of Southeast Asian palms. , 2012, , 164-190.		19
93	Cenozoic imprints on the phylogenetic structure of palm species assemblages worldwide. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7379-7384.	7.1	209
94	Will Climate Change, Genetic and Demographic Variation or Rat Predation Pose the Greatest Risk for Persistence of an Altitudinally Distributed Island Endemic?. Biology, 2012, 1, 736-765.	2.8	9
95	A monograph of the betel nut palms (Areca: Arecaceae) of East Malesia. Botanical Journal of the Linnean Society, 2012, 168, 147-173.	1.6	43
96	Quaternary and preâ€Quaternary historical legacies in the global distribution of a major tropical plant lineage. Global Ecology and Biogeography, 2012, 21, 909-921.	5.8	91
97	Conservation genetics and ecology of an endemic montane palm on Lord Howe Island and its potential for resilience. Conservation Genetics, 2012, 13, 257-270.	1.5	5
98	Speciation with gene flow on Lord Howe Island. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13188-13193.	7.1	184
99	Global warming, elevational ranges and the vulnerability of tropical biota. Biological Conservation, 2011, 144, 548-557.	4.1	185
100	Comparative Gynoecium Structure and Multiple Origins of Apocarpy in Coryphoid Palms (Arecaceae). International Journal of Plant Sciences, 2011, 172, 674-690.	1.3	23
101	Evolution of the palm androecium as revealed by character mapping on a supertree. , 2011, , 156-180.		7
102	Origin and global diversification patterns of tropical rain forests: inferences from a complete genus-level phylogeny of palms. BMC Biology, 2011, 9, 44.	3.8	228
103	Phylogenetic relationships among arecoid palms (Arecaceae: Arecoideae). Annals of Botany, 2011, 108, 1417-1432.	2.9	97
104	Molecular phylogenetics of the palm subtribe Ptychospermatinae (Arecaceae). American Journal of Botany, 2011, 98, 1716-1726.	1.7	6
105	Complete Generic-Level Phylogenetic Analyses of Palms (Arecaceae) with Comparisons of Supertree and Supermatrix Approaches. Systematic Biology, 2009, 58, 240-256.	5.6	189
106	A comparative analysis of pollinator type and pollen ornamentation in the Araceae and the Arecaceae, two unrelated families of the monocots. BMC Research Notes, 2009, 2, 145.	1.4	41
107	A monograph of Cyrtostachys (Arecaceae). Kew Bulletin, 2009, 64, 67-94.	0.9	11
108	How sympatric is speciation in the Howea palms of Lord Howe Island?. Molecular Ecology, 2009, 18, 3629-3638.	3.9	33

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109	Calospatha subsumed in Calamus (Arecaceae: Calamoideae). Kew Bulletin, 2008, 63, 161-162.	0.9	8
110	A revision of the palm genera (Arecaceae) of New Caledonia. Kew Bulletin, 2008, 63, 61-73.	0.9	17
111	A revision of the Heterospathe elegans (Arecaceae) complex in New Guinea. Kew Bulletin, 2008, 63, 639-647.	0.9	5
112	Mid-Tertiary dispersal, not Gondwanan vicariance explains distribution patterns in the wax palm subfamily (Ceroxyloideae: Arecaceae). Molecular Phylogenetics and Evolution, 2007, 45, 272-288.	2.7	71
113	A new subfamily classification of the palm family (Arecaceae): evidence from plastid DNA phylogeny. Botanical Journal of the Linnean Society, 2006, 151, 15-38.	1.6	171
114	The fossil history of palms (Arecaceae) in Africa and new records from the Late Oligocene (28â€“27 Mya) of north-western Ethiopia. Botanical Journal of the Linnean Society, 2006, 151, 69-81.	1.6	100
115	Historical legacies in the geographical diversity patterns of New World palm (Arecaceae) subfamilies. Botanical Journal of the Linnean Society, 2006, 151, 113-125.	1.6	74
116	Sympatric speciation in palms on an oceanic island. Nature, 2006, 441, 210-213.	27.8	527
117	Sympatric plant speciation in islands? (Reply). Nature, 2006, 443, E12-E13.	27.8	12
118	Molecular phylogeny of the palm genus Chamaedorea, based on the low-copy nuclear genes PRK and RPB2. Molecular Phylogenetics and Evolution, 2006, 38, 398-415.	2.7	43
119	Low-copy nuclear DNA, phylogeny and the evolution of dichogamy in the betel nut palms and their relatives (Arecinae; Arecaceae). Molecular Phylogenetics and Evolution, 2006, 39, 598-618.	2.7	40
120	<I>Dransfieldia</I> (Arecaceae)â€”A New Palm Genus from Western New Guinea. Systematic Botany, 2006, 31, 61-69.	0.5	11
121	Homoplasious character combinations and generic delimitation: a case study from the Indoâ€Pacific arecoid palms (Arecaceae: Areceae). American Journal of Botany, 2006, 93, 1065-1080.	1.7	56
122	A Synopsis of the Genus Hydriastele (Arecaceae). Kew Bulletin, 2004, 59, 61.	0.9	12
123	Calamus suaveolens: A New Rattan from Sulawesi. Kew Bulletin, 2004, 59, 69.	0.9	0
124	Elevational gradients, area and tropical island diversity: an example from the palms of New Guinea. Ecography, 2004, 27, 299-310.	4.5	99
125	Comparative floral structure and systematics of Pelagodoxa and Sommieria (Arecaceae). Botanical Journal of the Linnean Society, 2004, 146, 27-39.	1.6	15
126	A Monograph of the Genus Rhopaloblaste (Arecaceae). Kew Bulletin, 2004, 59, 47.	0.9	4

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127	Floral anatomy in Dypsis (Arecaceaeâ€“Areceae): a case of complex synorganization and stamen reduction. Botanical Journal of the Linnean Society, 2003, 143, 115-133.	1.6	22
128	An Account of the Papuasian Species of Calamus (Arecaceae) with Paired Fruit. Kew Bulletin, 2003, 58, 371.	0.9	5
129	A Revision of the Calamus aruensis (Arecaceae) Complex in New Guinea and the Pacific. Kew Bulletin, 2003, 58, 351.	0.9	4
130	Two Unusual Calamus Species from New Guinea. Kew Bulletin, 2002, 57, 719.	0.9	3
131	Calamus longipinna (Arecaceae: Calamoideae) and Its Relatives in New Guinea. Kew Bulletin, 2002, 57, 853.	0.9	3
132	Calamus maturbongsii, an Unusual New Rattan Species from New Guinea. Kew Bulletin, 2002, 57, 725.	0.9	1
133	Pollen aperture morphology in Arecaceae: Application within phylogenetic analyses, and a summary of record of palm-like pollen the fossil. Grana, 2001, 40, 45-77.	0.8	78
134	The conservation value of botanic garden palm collections. Biological Conservation, 2001, 98, 259-271.	4.1	53
135	Molecular Phylogenetics of Subfamily Calamoideae (Palmae) Based on nrDNA ITS and cpDNA rps16 Intron Sequence Data. Molecular Phylogenetics and Evolution, 2000, 14, 195-217.	2.7	80
136	Molecular Phylogenetics of Calamus (Palmae) and Related Rattan Genera Based on 5S nrDNA Spacer Sequence Data. Molecular Phylogenetics and Evolution, 2000, 14, 218-231.	2.7	65
137	Phylogeny, Character Evolution, and a New Classification of the Calamoid Palms. Systematic Botany, 2000, 25, 297.	0.5	63
138	A phylogenetic study of the palm family (Palmae) based on chloroplast DNA sequences from thetrnL ?trnF region. Plant Systematics and Evolution, 1999, 219, 111-126.	0.9	72
139	A new Coryphoid palm genus from Madagascar. Botanical Journal of the Linnean Society, 0, 156, 79-91.	1.6	32
140	A Birdâ€™s Eye View of the Systematics of Convolvulaceae: Novel Insights From Nuclear Genomic Data. Frontiers in Plant Science, 0, 13, .	3.6	15