Thomas Couvreur

List of Publications by Year
in descending order

122 papers	7,841 citations	41344 49 h-index	62596 80 g-index
136 all docs	136 docs citations	136 times ranked	8251 citing authors

#	Article	IF	Citations
1	Amazonia is the primary source of Neotropical biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6034-6039.	7.1	352
2	The abiotic and biotic drivers of rapid diversification in <scp>A</scp>ndean bellflowers (Campanulaceae). New Phytologist, 2016, 210, 1430-1442.	7.3	325
3	Molecular Phylogenetics, Temporal Diversification, and Principles of Evolution in the Mustard Family (Brassicaceae). Molecular Biology and Evolution, 2010, 27, 55-71.	8.9	306
4	Faster Speciation and Reduced Extinction in the Tropics Contribute to the Mammalian Latitudinal Diversity Gradient. PLoS Biology, 2014, 12, e1001775.	5.6	279
5	<scp>RPANDA</scp>: an R package for macroevolutionary analyses on phylogenetic trees. Methods in Ecology and Evolution, 2016, 7, 589-597.	5.2	247
6	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
7	A new subfamilial and tribal classification of the pantropical flowering plant family Annonaceae informed by molecular phylogenetics. Botanical Journal of the Linnean Society, 2012, 169, 5-40.	1.6	222
8	What causes latitudinal gradients in species diversity? Evolutionary processes and ecological constraints on swallowtail biodiversity. Ecology Letters, 2012, 15, 267-277.	6.4	222
9	Macroevolutionary perspectives to environmental change. Ecology Letters, 2013, 16, 72-85.	6.4	222
10	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
11	The commonness of rarity: Global and future distribution of rarity across land plants. Science Advances, 2019, 5, eaaz0414.	10.3	194
12	Origin and diversification of living cycads: a cautionary tale on the impact of the branching process prior in Bayesian molecular dating. BMC Evolutionary Biology, 2015, 15, 65.	3.2	189
13	Early evolutionary history of the flowering plant family Annonaceae: steady diversification and boreotropical geodispersal. Journal of Biogeography, 2011, 38, 664-680.	3.0	184
14	Recent origin and rapid speciation of Neotropical orchids in the world's richest plant biodiversity hotspot. New Phytologist, 2017, 215, 891-905.	7.3	170
15	Molecular phylogenetics reveal multiple tertiary vicariance origins of the African rain forest trees. BMC Biology, 2008, 6, 54.	3.8	151
16	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
17	ConR: An R package to assist largeâ€scale multispecies preliminary conservation assessments using distribution data. Ecology and Evolution, 2017, 7, 11292-11303.	1.9	138
18	Tectonics, climate and the diversification of the tropical African terrestrial flora and fauna. Biological Reviews, 2021, 96, 16-51.	10.4	123

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19	Nuclear microsatellite markers for the date palm (Phoenix dactylifera L.): characterization and utility across the genus Phoenix and in other palm genera. Molecular Ecology Notes, 2004, 4, 256-258.	1.7	115
20	Costâ€effective enrichment hybridization capture of chloroplast genomes at deep multiplexing levels for population genetics and phylogeography studies. Molecular Ecology Resources, 2014, 14, 1103-1113.	4.8	110
21	Exploring the floristic diversity of tropical Africa. BMC Biology, 2017, 15, 15.	3.8	109
22	Remotely sensed temperature and precipitation data improve species distribution modelling in the tropics. Global Ecology and Biogeography, 2016, 25, 443-454.	5.8	105
23	Assessing the causes of diversification slowdowns: temperatureâ€dependent and diversityâ€dependent models receive equivalent support. Ecology Letters, 2019, 22, 1900-1912.	6.4	101
24	Phylogenomics of the Major Tropical Plant Family Annonaceae Using Targeted Enrichment of Nuclear Genes. Frontiers in Plant Science, 2018, 9, 1941.	3.6	100
25	Phylogenetic relationships among arecoid palms (Arecaceae: Arecoideae). Annals of Botany, 2011, 108, 1417-1432.	2.9	97
26	Cradles and museums of generic plant diversity across tropical Africa. New Phytologist, 2020, 225, 2196-2213.	7.3	97
27	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
28	RAINBIO: a mega-database of tropical African vascular plants distributions. PhytoKeys, 2016, 74, 1-18.	1.0	92
29	Phylogenetic Analysis of Seven WRKY Genes across the Palm Subtribe Attaleinae (Arecaceae) Identifies Syagrus as Sister Group of the Coconut. PLoS ONE, 2009, 4, e7353.	2.5	83
30	Odd man out: why are there fewer plant species in African rain forests?. Plant Systematics and Evolution, 2015, 301, 1299-1313.	0.9	83
31	Tropical rain forest evolution: palms as a model group. BMC Biology, 2013, 11, 48.	3.8	81
32	A third of the tropical African flora is potentially threatened with extinction. Science Advances, 2019, 5, eaax9444.	10.3	80
33	Beyond trees: Biogeographical regionalization of tropical Africa. Journal of Biogeography, 2018, 45, 1153-1167.	3.0	78
34	Frugivory-related traits promote speciation of tropical palms. Nature Ecology and Evolution, 2017, 1, 1903-1911.	7.8	77
35	Cenozoic colonization and diversification patterns of tropical American palms: evidence fromAstrocaryum(Arecaceae). Botanical Journal of the Linnean Society, 2013, 171, 120-139.	1.6	76
36	Higher level molecular phylogeny of darkling beetles (<scp>C</scp>oleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (<scp>T</sc	3.9	74

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37	Both temperature fluctuations and East Asian monsoons have driven plant diversification in the karst ecosystems from southern China. Molecular Ecology, 2017, 26, 6414-6429.	3.9	74
38	Dispersal and niche evolution jointly shape the geographic turnover of phylogenetic clades across continents. Scientific Reports, 2013, 3, 1164.	3.3	66
39	A mega-phylogeny of the Annonaceae: taxonomic placement of five enigmatic genera and support for a new tribe, Phoenicantheae. Scientific Reports, 2017, 7, 7323.	3.3	66
40	Evolution of syncarpy and other morphological characters in African Annonaceae: A posterior mapping approach. Molecular Phylogenetics and Evolution, 2008, 47, 302-318.	2.7	65
41	From Africa via Europe to South America: migrational route of a speciesâ€rich genus of Neotropical lowland rain forest trees (Guatteria, Annonaceae). Journal of Biogeography, 2009, 36, 2338-2352.	3.0	64
42	Five major shifts of diversification through the long evolutionary history of Magnoliidae (angiosperms). BMC Evolutionary Biology, 2015, 15, 49.	3.2	64
43	Plant phylogeny as a window on the evolution of hyperdiversity in the tropical rainforest biome. New Phytologist, 2017, 214, 1408-1422.	7.3	64
44	Intraâ€individual polymorphism in chloroplasts from <scp>NGS</scp> data: where does it come from and how to handle it?. Molecular Ecology Resources, 2016, 16, 434-445.	4.8	62
45	The global abundance of tree palms. Global Ecology and Biogeography, 2020, 29, 1495-1514.	5.8	62
46	From capsules to nutletsâ€”phylogenetic relationships in the <scp>B</scp>oraginales. Cladistics, 2014, 30, 508-518.	3.3	56
47	Ancient tropical extinctions at high latitudes contributed to the latitudinal diversity gradient*. Evolution; International Journal of Organic Evolution, 2020, 74, 1966-1987.	2.3	55
48	Little ecological divergence associated with speciation in two African rain forest tree genera. BMC Evolutionary Biology, 2011, 11, 296.	3.2	54
49	Phylogeny and systematics of African Melastomateae (Melastomataceae). Taxon, 2017, 66, 584-614.	0.7	53
50	Multiple shifts to open habitats in Melastomateae (Melastomataceae) congruent with the increase of African Neogene climatic aridity. Journal of Biogeography, 2018, 45, 1420-1431.	3.0	51
51	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
52	A large-scale species level dated angiosperm phylogeny for evolutionary and ecological analyses. Biodiversity Data Journal, 2020, 8, e39677.	0.8	47
53	Biogeographic and diversification patterns of Neotropical Troidini butterflies (Papilionidae) support a museum model of diversity dynamics for Amazonia. BMC Evolutionary Biology, 2012, 12, 82.	3.2	46
54	Dispersal is a major driver of the latitudinal diversity gradient of <scp>C</scp>arnivora. Global Ecology and Biogeography, 2015, 24, 1059-1071.	5.8	46

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55	Phylogeography of the genus Podococcus (Palmae/Arecaceae) in Central African rain forests: Climate stability predicts unique genetic diversity. Molecular Phylogenetics and Evolution, 2016, 105, 126-138.	2.7	45
56	Genome-wide macroevolutionary signatures of key innovations in butterflies colonizing new host plants. Nature Communications, 2021, 12, 354.	12.8	43
57	Toward a Self-Updating Platform for Estimating Rates of Speciation and Migration, Ages, and Relationships of Taxa. Systematic Biology, 2017, 66, syw066.	5.6	42
58	Beyond dead trees: integrating the scientific process in the Biodiversity Data Journal. Biodiversity Data Journal, 2013, 1, e995.	0.8	40
59	Targeted Capture of Hundreds of Nuclear Genes Unravels Phylogenetic Relationships of the Diverse Neotropical Palm Tribe Geonomateae. Frontiers in Plant Science, 2019, 10, 864.	3.6	40
60	Keys to the genera of Annonaceae. Botanical Journal of the Linnean Society, 2012, 169, 74-83.	1.6	38
61	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
62	Molecular and Morphological Characterization of a New Monotypic Genus of Annonaceae, Mwasumbia from Tanzania. Systematic Botany, 2009, 34, 266-276.	0.5	34
63	Radiations and key innovations in an early branching angiosperm lineage (Annonaceae; Magnoliales). Botanical Journal of the Linnean Society, 2012, 169, 117-134.	1.6	34
64	Ancient islands acted as refugia and pumps for conifer diversity. Cladistics, 2017, 33, 69-92.	3.3	33
65	Conserved ancestral tropical niche but different continental histories explain the latitudinal diversity gradient in brush-footed butterflies. Nature Communications, 2021, 12, 5717.	12.8	33
66	Role of <scp>C</scp>aribbean Islands in the diversification and biogeography of Neotropical <scp>H</scp>eraclides swallowtails. Cladistics, 2015, 31, 291-314.	3.3	30
67	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
68	Preâ€Pleistocene origin of phylogeographical breaks in African rain forest trees: New insights from Greenwayodendron (Annonaceae) phylogenomics. Journal of Biogeography, 2019, 46, 212-223.	3.0	30
69	Pulled Diversification Rates, Lineages-Through-Time Plots, and Modern Macroevolutionary Modeling. Systematic Biology, 2022, 71, 758-773.	5.6	30
70	Longâ€fragment targeted capture for longâ€read sequencing of plastomes. Applications in Plant Sciences, 2019, 7, e1243.	2.1	28
71	Which frugivoryâ€related traits facilitated historical longâ€distance dispersal in the custard apple family (Annonaceae)?. Journal of Biogeography, 2019, 46, 1874-1888.	3.0	28
72	Individualistic evolutionary responses of Central African rain forest plants to Pleistocene climatic fluctuations. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32509-32518.	7.1	26

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73	Close Genetic Proximity Between Cultivated and Wild Bactris gasipaes Kunth Revealed by Microsatellite Markers in Western Ecuador. Genetic Resources and Crop Evolution, 2006, 53, 1361-1373.	1.6	24
74	Phylogenetic Relationships of the Cultivated Neotropical Palm Bactris gasipaes (Arecaceae) with its Wild Relatives Inferred from Chloroplast and Nuclear DNA Polymorphisms. Systematic Botany, 2007, 32, 519-530.	0.5	24
75	Phylogenetics and diversification history of African rattans (Calamoideae, Ancistrophyllinae). Botanical Journal of the Linnean Society, 2016, 182, 256-271.	1.6	23
76	Historical biogeography of Boraginales: West Gondwanan vicariance followed by longâ€distance dispersal?. Journal of Biogeography, 2017, 44, 158-169.	3.0	20
77	Biogeography and distribution patterns of Southeast Asian palms. , 2012, , 164-190.		19
78	Sirdavidia, an extraordinary new genus of Annonaceae from Gabon. PhytoKeys, 2015, 46, 1-19.	1.0	19
79	Species delimitation in the genus Greenwayodendron based on morphological and genetic markers reveals new species. Taxon, 2019, 68, 442-454.	0.7	19
80	Chromosomeâ€level reference genome of the soursop (Annona muricata): A new resource for Magnoliid research and tropical pomology. Molecular Ecology Resources, 2021, 21, 1608-1619.	4.8	18
81	Tree diversity of the Dja Faunal Reserve, southeasternÂCameroon. Biodiversity Data Journal, 2014, 2, e1049.	0.8	18
82	A new set of microsatellite markers for the peach palm (Bactris gasipaes Kunth); characterization and across-taxa utility within the tribe Cocoeae. Molecular Ecology Notes, 2004, 4, 580-582.	1.7	17
83	Revision of the African Genus Hexalobus (Annonaceae). Systematic Botany, 2011, 36, 33-48.	0.5	17
84	To what extent do new fossil discoveries change our understanding of clade evolution? A cautionary tale from burying beetles (Coleoptera:Nicrophorus). Biological Journal of the Linnean Society, 2016, 117, 686-704.	1.6	17
85	Crop wild relative conservation: Wild yams are not that wild. Biological Conservation, 2017, 210, 325-333.	4.1	17
86	Phylogenomic approaches reveal how climate shapes patterns of genetic diversity in an African rain forest tree species. Molecular Ecology, 2020, 29, 3560-3573.	3.9	17
87	Plastid and Seed Morphology Data Support a Revised Infrageneric Classification and an African Origin of the Pantropical Genus Xylopia (Annonaceae). Systematic Botany, 2017, 42, 211-225.	0.5	16
88	Unraveling the Phylogenomic Relationships of the Most Diverse African Palm Genus Raphia (Calamoideae, Arecaceae). Plants, 2020, 9, 549.	3.5	16
89	A new species in the tree genus Polyceratocarpus (Annonaceae) from the Udzungwa Mountains of Tanzania. PhytoKeys, 2016, 63, 63-76.	1.0	16
90	A new species of <I>Uvariopsis</I> (<I>Annonaceae</I>), endemic to the Eastern Arc Mountains of Tanzania. Blumea: Journal of Plant Taxonomy and Plant Geography, 2010, 55, 68-72.	0.2	15

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91	Guinea yam (Dioscorea spp., Dioscoreaceae) wild relatives identified using whole plastome phylogenetic analyses. Taxon, 2018, 67, 905-915.	0.7	15
92	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
93	Pollen morphology within theMonodoraclade, a diverse group of five African Annonaceae genera. Grana, 2008, 47, 185-210.	0.8	13
94	A robust phylogenomic framework for the calamoid palms. Molecular Phylogenetics and Evolution, 2021, 157, 107067.	2.7	13
95	An ancient tropical origin, dispersals via land bridges and Miocene diversification explain the subcosmopolitan disjunctions of the liverwort genus Lejeunea. Scientific Reports, 2020, 10, 14123.	3.3	12
96	Taxonomic revision of the African genus Greenwayodendron (Annonaceae). PhytoKeys, 2018, 114, 55-93.	1.0	12
97	New species of Uvariopsis (Annonaceae) and Laccosperma (Arecaceae/Palmae) from Monts de Cristal, Gabon. PhytoKeys, 2016, 68, 1-8.	1.0	12
98	Taxonomic revision of the African genera Brieya and Piptostigma (Annonaceae). Plant Ecology and Evolution, 2017, 150, 173-216.	0.7	12
99	A revision of the genus Sclerosperma (Arecaceae). Kew Bulletin, 2008, 63, 75-86.	0.9	11
100	Diversification of African Rainforest Restricted Clades: Piptostigmateae and Annickieae (Annonaceae). Diversity, 2020, 12, 227.	1.7	11
101	Raphia vinifera (Arecaceae; Calamoideae): Misidentified for far too long. Biodiversity Data Journal, 2019, 7, e37757.	0.8	10
102	Revision of the African genus Uvariastrum (Annonaceae). PhytoKeys, 2014, 33, 1-40.	1.0	10
103	Insights into the Influence of Priors in Posterior Mapping of Discrete Morphological Characters: A Case Study in Annonaceae. PLoS ONE, 2010, 5, e10473.	2.5	9
104	A plastid phylogeny of the African rattans (Ancistrophyllinae, Arecaceae). Systematic Botany, 2014, 39, 1099-1107.	0.5	9
105	Characterizing the Phylogenetic Tree Community Structure of a Protected Tropical Rain Forest Area in Cameroon. PLoS ONE, 2014, 9, e98920.	2.5	8
106	Use and Cultural Significance of Raphia Palms. Economic Botany, 2020, 74, 207-225.	1.7	8
107	Three new species of Uvariodendron (Annonaceae) from coastal East Africa in Kenya and Tanzania. PhytoKeys, 2021, 174, 107-126.	1.0	8
108	Integration and harmonization of trait data from plant individuals across heterogeneous sources. Ecological Informatics, 2021, 62, 101206.	5.2	8

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109	Pleistocene climatic fluctuations promoted alternative evolutionary histories in Phytelephas aequatorialis, an endemic palm from western Ecuador. Journal of Biogeography, 2021, 48, 1023-1037.	3.0	8
110	Phylogenomics of the Palm Tribe Lepidocaryeae (Calamoideae: Arecaceae) and Description of a New Species ofMauritiella. Systematic Botany, 2021, 46, 863-874.	0.5	6
111	Two new species of Raphia (Palmae/Arecaceae) from Cameroon and Gabon. PhytoKeys, 2018, 111, 17-30.	1.0	5
112	Spatioâ€temporal dynamism of hotspots enhances plant diversity. Journal of Biogeography, 2009, 36, 1628-1629.	3.0	4
113	Complete plastome sequences of 14 African yam species (Dioscorea spp.). Mitochondrial DNA Part B: Resources, 2019, 4, 74-76.	0.4	4
114	An endangered West African rattan palm: Eremospatha dransfieldii. Biodiversity Data Journal, 2017, 5, e11176.	0.8	4
115	ï»¿Rediscovery of Gasteranthus extinctus L.E.Skog & L.P.Kvist (Gesneriaceae) at multiple sites in western Ecuador. PhytoKeys, 2022, 194, 33-46.	1.0	4
116	Impact of endâ€ofâ€century climate change on priority nonâ€timber forest product species across tropical Africa. African Journal of Ecology, 2022, 60, 1120-1132.	0.9	4
117	Phylogenomic relationships and historical biogeography in the South American vegetable ivory palms (Phytelepheae). Molecular Phylogenetics and Evolution, 2022, 166, 107314.	2.7	3
118	Two new records of palm species for Gabon: Sclerosperma profizianum Valk. & Sunder. and Eremospatha quiquecostulata Becc.. Biodiversity Data Journal, 2016, 4, e10187.	0.8	3
119	High genetic diversity with low connectivity among Mauritia flexuosa (Arecaceae) stands from Ecuadorean Amazonia. Biotropica, 2021, 53, 152-161.	1.6	2
120	The impact of climate change on the origin and future of East African rainforest trees. , 2011, , 304-319.		0
121	Jean-Christophe Pintaud (28.02.1970-10.08.2015). Botanical Journal of the Linnean Society, 2016, 182, 201-203.	1.6	0
122	Unraveling rain forest biodiversity: an interview with Thomas Couvreur. BMC Biology, 2018, 16, 127.	3.8	0