

David Kenfack

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

6,576
citations

109321

35
h-index

69250

77
g-index

100
all docs

100
docs citations

100
times ranked

8800
citing authors

#	ARTICLE	IF	CITATIONS
1	Rate of tree carbon accumulation increases continuously with tree size. <i>Nature</i> , 2014, 507, 90-93.	27.8	663
2	<scp>CTFS</scp>â€œForest<scp>GEO</scp>: a worldwide network monitoring forests in an era of global change. <i>Global Change Biology</i> , 2015, 21, 528-549.	9.5	473
3	Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , 2020, 579, 80-87.	27.8	439
4	An estimate of the number of tropical tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7472-7477.	7.1	335
5	Global importance of largeâ€œdiameter trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 849-864.	5.8	330
6	A general framework for the distanceâ€œdecay of similarity in ecological communities. <i>Ecology Letters</i> , 2008, 11, 904-917.	6.4	312
7	Testing metabolic ecology theory for allometric scaling of tree size, growth and mortality in tropical forests. <i>Ecology Letters</i> , 2006, 9, 575-588.	6.4	280
8	Scaleâ€œdependent relationships between tree species richness and ecosystem function in forests. <i>Journal of Ecology</i> , 2013, 101, 1214-1224.	4.0	265
9	Plant diversity increases with the strength of negative density dependence at the global scale. <i>Science</i> , 2017, 356, 1389-1392.	12.6	222
10	A Standard Protocol for Liana Censuses1. <i>Biotropica</i> , 2006, 38, 256-261.	1.6	207
11	Soil resources and topography shape local tree community structure in tropical forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122532.	2.6	201
12	Comparing tropical forest tree size distributions with the predictions of metabolic ecology and equilibrium models. <i>Ecology Letters</i> , 2006, 9, 589-602.	6.4	170
13	The variation of tree beta diversity across a global network of forest plots. <i>Global Ecology and Biogeography</i> , 2012, 21, 1191-1202.	5.8	135
14	Annual Rainfall and Seasonality Predict Panâ€œtropical Patterns of Liana Density and Basal Area. <i>Biotropica</i> , 2010, 42, 309-317.	1.6	134
15	Why do microbes exhibit weak biogeographic patterns?. <i>ISME Journal</i> , 2018, 12, 1404-1413.	9.8	134
16	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , 2021, 253, 108907.	4.1	122
17	Temporal variability of forest communities: empirical estimates of population change in 4000 tree species. <i>Ecology Letters</i> , 2014, 17, 855-865.	6.4	115
18	Aboveground biomass density models for NASAâ€™s Global Ecosystem Dynamics Investigation (GEDI) lidar mission. <i>Remote Sensing of Environment</i> , 2022, 270, 112845.	11.0	108

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19	Habitat filtering across tree life stages in tropical forest communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130548.	2.6	101
20	Direct and indirect effects of climate on richness drive the latitudinal diversity gradient in forest trees. <i>Ecology Letters</i> , 2019, 22, 245-255.	6.4	92
21	Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks. <i>Biogeosciences</i> , 2014, 11, 6827-6840.	3.3	89
22	How Effective Are DNA Barcodes in the Identification of African Rainforest Trees?. <i>PLoS ONE</i> , 2013, 8, e54921.	2.5	81
23	Contrasting effects of defaunation on aboveground carbon storage across the global tropics. <i>Nature Communications</i> , 2016, 7, 11351.	12.8	80
24	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 1366-1383.	5.8	78
25	Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , 2021, 260, 108849.	4.1	71
26	Testing species delimitation in sympatric species complexes: The case of an African tropical tree, <i>Carapa</i> spp. (Meliaceae). <i>Molecular Phylogenetics and Evolution</i> , 2012, 62, 275-285.	2.7	68
27	Rarity and abundance in a diverse African forest. <i>Biodiversity and Conservation</i> , 2007, 16, 2045-2074.	2.6	67
28	Closing a gap in tropical forest biomass estimation: taking crown mass variation into account in pantropical allometries. <i>Biogeosciences</i> , 2016, 13, 1571-1585.	3.3	66
29	High aboveground carbon stock of African tropical montane forests. <i>Nature</i> , 2021, 596, 536-542.	27.8	65
30	Habitat specificity and diversity of tree species in an African wet tropical forest. <i>Plant Ecology</i> , 2011, 212, 1363-1374.	1.6	56
31	CONTRASTING STRUCTURE AND COMPOSITION OF THE UNDERSTORY IN SPECIES-RICH TROPICAL RAIN FORESTS. <i>Ecology</i> , 2006, 87, 2298-2305.	3.2	55
32	Toward a general tropical forest biomass prediction model from very high resolution optical satellite images. <i>Remote Sensing of Environment</i> , 2017, 200, 140-153.	11.0	49
33	<i>In Situ</i> Reference Datasets From the TropiSAR and AfriSAR Campaigns in Support of Upcoming Spaceborne Biomass Missions. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 3617-3627.	4.9	49
34	Ecological Importance of Small-Diameter Trees to the Structure, Diversity and Biomass of a Tropical Evergreen Forest at Rabi, Gabon. <i>PLoS ONE</i> , 2016, 11, e0154988.	2.5	48
35	Climate sensitive size-dependent survival in tropical trees. <i>Nature Ecology and Evolution</i> , 2018, 2, 1436-1442.	7.8	41
36	Limited carbon and biodiversity co-benefits for tropical forest mammals and birds. <i>Ecological Applications</i> , 2016, 26, 1098-1111.	3.8	34

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37	Prevalence of phylogenetic clustering at multiple scales in an African rain forest tree community. <i>Journal of Ecology</i> , 2014, 102, 1008-1016.	4.0	33
38	The NASA AfriSAR campaign: Airborne SAR and lidar measurements of tropical forest structure and biomass in support of current and future space missions. <i>Remote Sensing of Environment</i> , 2021, 264, 112533.	11.0	33
39	Evaluating the potential of full-waveform lidar for mapping pan-tropical tree species richness. <i>Global Ecology and Biogeography</i> , 2020, 29, 1799-1816.	5.8	31
40	Predicting alpha diversity of African rain forests: models based on climate and satellite-derived data do not perform better than a purely spatial model. <i>Journal of Biogeography</i> , 2011, 38, 1164-1176.	3.0	30
41	Phylogenetic composition and structure of tree communities shed light on historical processes influencing tropical rainforest diversity. <i>Ecography</i> , 2017, 40, 521-530.	4.5	29
42	Resurrection in <i>Carapa</i> (Meliaceae): a reassessment of morphological variation and species boundaries using multivariate methods in a phylogenetic context. <i>Botanical Journal of the Linnean Society</i> , 2011, 165, 186-221.	1.6	28
43	Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide. <i>Nature Communications</i> , 2021, 12, 3137.	12.8	28
44	The Genus <i>Uvariopsis</i> (Annonaceae) in Tropical Africa, with a Recombination and One New Species from Cameroon. <i>Novon</i> , 2003, 13, 443.	0.3	26
45	A Synoptic Revision of <i>Carapa</i> (Meliaceae). <i>Harvard Papers in Botany</i> , 2011, 16, 171-231.	0.2	24
46	A taxonomic comparison of local habitat niches of tropical trees. <i>Oecologia</i> , 2013, 173, 1491-1498.	2.0	24
47	Distribution of biomass dynamics in relation to tree size in forests across the world. <i>New Phytologist</i> , 2022, 234, 1664-1677.	7.3	24
48	L'huile de carapa (<i>Carapa</i> spp., Meliaceae) en Afrique de l'Ouest : utilisations et implications dans la conservation des peuplements naturels. <i>Fruits</i> , 2010, 65, 343-354.	0.4	23
49	Exploring the relation between remotely sensed vertical canopy structure and tree species diversity in Gabon. <i>Environmental Research Letters</i> , 2019, 14, 094013.	5.2	20
50	Soil nitrogen concentration mediates the relationship between leguminous trees and neighbor diversity in tropical forests. <i>Communications Biology</i> , 2020, 3, 317.	4.4	20
51	Afromontane Forest Diversity and the Role of Grassland-Forest Transition in Tree Species Distribution. <i>Diversity</i> , 2020, 12, 30.	1.7	18
52	Making forest data fair and open. <i>Nature Ecology and Evolution</i> , 2022, 6, 656-658.	7.8	18
53	A simulation method to infer tree allometry and forest structure from airborne laser scanning and forest inventories. <i>Remote Sensing of Environment</i> , 2020, 251, 112056.	11.0	17
54	Demographic variation and habitat specialization of tree species in a diverse tropical forest of Cameroon. <i>Forest Ecosystems</i> , 2014, 1, .	3.1	16

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55	A map of African humid tropical forest aboveground biomass derived from management inventories. <i>Scientific Data</i> , 2020, 7, 221.	5.3	16
56	A Phylogenetic Perspective on the Individual Species-Area Relationship in Temperate and Tropical Tree Communities. <i>PLoS ONE</i> , 2013, 8, e63192.	2.5	13
57	Shift in functional traits along soil fertility gradient reflects non-random community assembly in a tropical African rainforest. <i>Plant Ecology and Evolution</i> , 2017, 150, 265-278.	0.7	11
58	Temporal population variability in local forest communities has mixed effects on tree species richness across a latitudinal gradient. <i>Ecology Letters</i> , 2020, 23, 160-171.	6.4	11
59	Vegetation, floristic composition and structure of a tropical montane forest in Cameroon. <i>Bothalia</i> , 2019, 49, .	0.3	11
60	Consistency of demographic trade-offs across 13 (sub)tropical forests. <i>Journal of Ecology</i> , 2022, 110, 1485-1496.	4.0	11
61	Determinants of spatial patterns of canopy tree species in a tropical evergreen forest in Gabon. <i>Journal of Vegetation Science</i> , 2019, 30, 929-939.	2.2	10
62	Effect of local topographic heterogeneity on tree species assembly in an <i>Acacia</i> -dominated African savanna. <i>Journal of Tropical Ecology</i> , 2019, 35, 46-56.	1.1	10
63	Phylogenetic turnover along local environmental gradients in tropical forest communities. <i>Oecologia</i> , 2016, 182, 547-557.	2.0	9
64	Polygyny does not explain the superior competitive ability of dominant ant associates in the African ant-plant, <i>Acacia</i> (<i>Vachellia</i>) <i>drepanolobium</i> . <i>Ecology and Evolution</i> , 2018, 8, 1441-1450.	1.9	9
65	Response to Comment on "Plant diversity increases with the strength of negative density dependence at the global scale". <i>Science</i> , 2018, 360, .	12.6	9
66	Tracing innovation pathways in the management of natural and social capital on Laikipia Maasai Group Ranches, Kenya. <i>Pastoralism</i> , 2016, 6, .	1.0	8
67	Demographic composition, not demographic diversity, predicts biomass and turnover across temperate and tropical forests. <i>Global Change Biology</i> , 2022, 28, 2895-2909.	9.5	8
68	Fine-scale habitat heterogeneity influences browsing damage by elephant and giraffe. <i>Biotropica</i> , 2021, 53, 86-96.	1.6	7
69	Gradients in the Diversity of Plants and Large Herbivores Revealed with DNA Barcoding in a Semi-Arid African Savanna. <i>Diversity</i> , 2022, 14, 219.	1.7	7
70	<i>Manilkara lososiana</i> , a New Species of Sapotaceae from Cameroon. <i>Kew Bulletin</i> , 2004, 59, 609.	0.9	6
71	A new species of <i>Carapa</i> (Meliaceae) from Central Guyana. <i>Brittonia</i> , 2009, 61, 366-374.	0.2	6
72	Two New Species of <i>Carapa</i> (Meliaceae) From Western Ecuador. <i>Systematic Botany</i> , 2011, 36, 124-128.	0.5	6

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73	Two new species of <i>Afrothismia</i> (Thismiaceae) from southern Cameroon. <i>Kew Bulletin</i> , 2013, 68, 591-597.	0.9	6
74	Response to Comment on "Plant diversity increases with the strength of negative density dependence at the global scale". <i>Science</i> , 2018, 360, .	12.6	6
75	A New Species of <i>Cassipourea</i> (Rhizophoraceae) from Western Cameroon. <i>Novon</i> , 2006, 16, 61-64.	0.3	5
76	Botanical Sampling Gaps Across the Cameroon Mountains. <i>Biodiversity Informatics</i> , 0, 12, .	3.0	5
77	An extraordinary new rheophyte in the genus <i>Leptactina</i> (Rubiaceae, Pavetteae) from Rio Muni (Equatorial Guinea). <i>Botanical Journal of the Linnean Society</i> , 2007, 153, 109-113.	1.6	4
78	<i>Carapa vasquezii</i> (Meliaceae), a new species from western Amazonia. <i>Brittonia</i> , 2011, 63, 7-10.	0.2	4
79	Extranuptial nectaries in <i>Carapa</i> Aubl. (Meliaceae-Cedreloideae). <i>Adansonia</i> , 2014, 36, 335-349.	0.2	3
80	Field and Morphometric Studies of <i>Phyllobotryon</i> Mill. Arg. (Salicaceae) in the Korup Forest Area of Cameroon. <i>Adansonia</i> , 2014, 36, 303-313.	0.2	3
81	Limited carbon and biodiversity co-benefits for tropical forest mammals and birds. , 2015, , .		3
82	Five new species of <i>Englerophytum</i> K. Krause (Sapotaceae) from central Africa. <i>Candollea</i> , 2016, 71, 287-305.	0.2	3
83	Floristic and structural changes in secondary forests following agricultural disturbances: the case of Lama forest reserve in Southern Benin. <i>International Journal of Biological and Chemical Sciences</i> , 2017, 10, 1602.	0.2	3
84	The genus <i>Cola</i> (Malvaceae) in Cameroon's Korup National Park, with two novelties. <i>Plant Ecology and Evolution</i> , 2018, 151, 241-251.	0.7	3
85	Conspecific negative density dependence does not explain coexistence in a tropical Afromontane forest. <i>Journal of Vegetation Science</i> , 2021, 32, .	2.2	3
86	Savanna woody plants responses to mammalian herbivory and implications for management of livestock-wildlife landscape. <i>Ecological Solutions and Evidence</i> , 2021, 2, e12083.	2.0	3
87	The Efficiency of DNA Barcoding in the Identification of Afromontane Forest Tree Species. <i>Diversity</i> , 2022, 14, 233.	1.7	3
88	<i>Gambeya korupensis</i> (Sapotaceae: Chrysophylloideae), a new rain forest tree species from the Southwest Region in Cameroon. <i>Kew Bulletin</i> , 2016, 71, 1.	0.9	2
89	Environment- and trait-mediated scaling of tree occupancy in forests worldwide. <i>Global Ecology and Biogeography</i> , 2019, 28, 1155-1167.	5.8	2
90	Isolation and characterization of 15 polymorphic microsatellite loci in <i>Tetragastris panamensis</i> (Burseraceae), a widespread Neotropical forest tree. <i>Conservation Genetics Resources</i> , 2009, 1, 385-387.	0.8	1

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91	The Tropical African Genus <i>Croton</i> (Euphorbiaceae), with Two New Species. <i>Novon</i> , 2015, 24, 246-255.	0.3	1
92	Interactions between all pairs of neighboring trees in 16 forests worldwide reveal details of unique ecological processes in each forest, and provide windows into their evolutionary histories. <i>PLoS Computational Biology</i> , 2021, 17, e1008853.	3.2	1
93	Understanding the monodominance of <i>Acacia drepanolobium</i> in East African savannas: insights from demographic data. <i>Trees - Structure and Function</i> , 2021, 35, 1439-1450.	1.9	1
94	What structures diurnal visitation rates to flowering trees in an Afrotropical lowland rainforest understory?. <i>Insect Conservation and Diversity</i> , 2022, 15, 19-35.	3.0	1
95	<i>Cassipourea atangana</i> sp. nov., a new species of Rhizophoraceae from Lower Guinea. <i>Adansonia</i> , 2011, 33, 209-213.	0.2	0
96	<i>Kihansia jengi</i> sp. nov., a new species of Triuridaceae from southeastern Cameroon. <i>Kew Bulletin</i> , 2015, 70, 1.	0.9	0