

# David Kenfack

## List of Publications by Citations

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93  
papers

4,438  
citations

30  
h-index

66  
g-index

100  
ext. papers

5,515  
ext. citations

7  
avg, IF

4.53  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 93 | Rate of tree carbon accumulation increases continuously with tree size. <i>Nature</i> , <b>2014</b> , 507, 90-3  | 50.4 | 509       |
| 92 | CTFS-ForestGEO: a worldwide network monitoring forests in an era of global change. <i>Global Change Biology</i> , <b>2015</b> , 21, 528-49   | 11.4 | 368       |
| 91 | An estimate of the number of tropical tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 7472-7               | 11.5 | 258       |
| 90 | A general framework for the distance-decay of similarity in ecological communities. <i>Ecology Letters</i> , <b>2008</b> , 11, 904-17  | 10   | 241       |
| 89 | Testing metabolic ecology theory for allometric scaling of tree size, growth and mortality in tropical forests. <i>Ecology Letters</i> , <b>2006</b> , 9, 575-88                     | 10   | 230       |
| 88 | Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , <b>2020</b> , 579, 80-87  | 50.4 | 202       |
| 87 | Scale-dependent relationships between tree species richness and ecosystem function in forests. <i>Journal of Ecology</i> , <b>2013</b> , 101, 1214-1224                              | 6    | 199       |
| 86 | Global importance of large-diameter trees. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 849-864  | 6.1  | 185       |
| 85 | A Standard Protocol for Liana Censuses <sup>1</sup> . <i>Biotropica</i> , <b>2006</b> , 38, 256-261  | 2.3  | 157       |
| 84 | Plant diversity increases with the strength of negative density dependence at the global scale. <i>Science</i> , <b>2017</b> , 356, 1389-1392  | 33.3 | 150       |
| 83 | Soil resources and topography shape local tree community structure in tropical forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 280, 20122532 | 4.4  | 148       |
| 82 | Comparing tropical forest tree size distributions with the predictions of metabolic ecology and equilibrium models. <i>Ecology Letters</i> , <b>2006</b> , 9, 589-602                | 10   | 144       |
| 81 | Annual Rainfall and Seasonality Predict Pan-tropical Patterns of Liana Density and Basal Area. <i>Biotropica</i> , <b>2010</b> , 42, 309-317   | 2.3  | 117       |
| 80 | The variation of tree beta diversity across a global network of forest plots. <i>Global Ecology and Biogeography</i> , <b>2012</b> , 21, 1191-1202                                   | 6.1  | 114       |
| 79 | Temporal variability of forest communities: empirical estimates of population change in 4000 tree species. <i>Ecology Letters</i> , <b>2014</b> , 17, 855-65                         | 10   | 84        |
| 78 | Habitat filtering across tree life stages in tropical forest communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 280, 20130548               | 4.4  | 81        |
| 77 | Why do microbes exhibit weak biogeographic patterns?. <i>ISME Journal</i> , <b>2018</b> , 12, 1404-1413  | 11.9 | 73        |

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|----|--|------|----|
| 76 | Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks. <i>Biogeosciences</i> , <b>2014</b> , 11, 6827-6840  | 4.6  | 70 |
| 75 | How effective are DNA barcodes in the identification of African rainforest trees?. <i>PLoS ONE</i> , <b>2013</b> , 8, e54921   | 3.7  | 67 |
| 74 | Contrasting effects of defaunation on aboveground carbon storage across the global tropics. <i>Nature Communications</i> , <b>2016</b> , 7, 11351  | 17.4 | 61 |
| 73 | 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> , <b>2012</b> , 62, 275-85                                   | 4.1  | 59 |
| 72 | Rarity and abundance in a diverse African forest. <i>Biodiversity and Conservation</i> , <b>2007</b> , 16, 2045-2074   | 3.4  | 56 |
| 71 | Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 1366-1383   | 6.1  | 52 |
| 70 | Closing a gap in tropical forest biomass estimation: taking crown mass variation into account in pantropical allometries. <i>Biogeosciences</i> , <b>2016</b> , 13, 1571-1585  | 4.6  | 47 |
| 69 | Habitat specificity and diversity of tree species in an African wet tropical forest. <i>Plant Ecology</i> , <b>2011</b> , 212, 1363-1374   | 1.7  | 46 |
| 68 | Contrasting structure and composition of the understory in species-rich tropical rain forests. <i>Ecology</i> , <b>2006</b> , 87, 2298-305   | 4.6  | 44 |
| 67 | ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , <b>2021</b> , 253, 108907  | 6.2  | 36 |
| 66 | Toward a general tropical forest biomass prediction model from very high resolution optical satellite images. <i>Remote Sensing of Environment</i> , <b>2017</b> , 200, 140-153  | 13.2 | 35 |
| 65 | Ecological Importance of Small-Diameter Trees to the Structure, Diversity and Biomass of a Tropical Evergreen Forest at Rabi, Gabon. <i>PLoS ONE</i> , <b>2016</b> , 11, e0154988  | 3.7  | 34 |
| 64 | In Situ 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> , <b>2018</b> , 11, 3617-3627 | 4.7  | 33 |
| 63 | Biogeographical patterns of liana abundance and diversity <b>2014</b> , 131-146  |      | 30 |
| 62 | Direct and indirect effects of climate on richness drive the latitudinal diversity gradient in forest trees. <i>Ecology Letters</i> , <b>2019</b> , 22, 245-255  | 10   | 30 |
| 61 | Prevalence of phylogenetic clustering at multiple scales in an African rain forest tree community. <i>Journal of Ecology</i> , <b>2014</b> , 102, 1008-1016  | 6    | 27 |
| 60 | Limited carbon and biodiversity co-benefits for tropical forest mammals and birds <b>2016</b> , 26, 1098-111   |      | 27 |
| 59 | Climate sensitive size-dependent survival in tropical trees. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1436-1443  | 14.3 | 23 |

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|----|---|------|----|
| 58 | 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> , <b>2011</b> , 38, 1164-1176                  | 4.1  | 23 |
| 57 | A taxonomic comparison of local habitat niches of tropical trees. <i>Oecologia</i> , <b>2013</b> , 173, 1491-8  | 2.9  | 22 |
| 56 | Phylogenetic composition and structure of tree communities shed light on historical processes influencing tropical rainforest diversity. <i>Ecography</i> , <b>2017</b> , 40, 521-530   | 6.5  | 20 |
| 55 | Resurrection in Carapa (Meliaceae): a reassessment of morphological variation and species boundaries using multivariate methods in a phylogenetic context. <i>Botanical Journal of the Linnean Society</i> , <b>2011</b> , 165, 186-221 | 2.2  | 19 |
| 54 | A Synoptic Revision of Carapa (Meliaceae). <i>Harvard Papers in Botany</i> , <b>2011</b> , 16, 171-231  | 0.3  | 19 |
| 53 | Evaluating the potential of full-waveform lidar for mapping pan-tropical tree species richness. <i>Global Ecology and Biogeography</i> , <b>2020</b> , 29, 1799-1816  | 6.1  | 19 |
| 52 | The Genus Uvariopsis (Annonaceae) in Tropical Africa, with a Recombination and One New Species from Cameroon. <i>Novon</i> , <b>2003</b> , 13, 443  | 0.7  | 16 |
| 51 | Le Buile de carapa (Carapaspp., Meliaceae) en Afrique de l'Ouest : utilisations et implications dans la conservation des peuplements naturels. <i>Fruits</i> , <b>2010</b> , 65, 343-354  | 0.3  | 16 |
| 50 | Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , <b>2021</b> , 260, 108849   | 6.2  | 15 |
| 49 | Demographic variation and habitat specialization of tree species in a diverse tropical forest of Cameroon. <i>Forest Ecosystems</i> , <b>2014</b> , 1,  | 3.8  | 13 |
| 48 | Exploring the relation between remotely sensed vertical canopy structure and tree species diversity in Gabon. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 094013  | 6.2  | 11 |
| 47 | A phylogenetic perspective on the individual species-area relationship in temperate and tropical tree communities. <i>PLoS ONE</i> , <b>2013</b> , 8, e63192  | 3.7  | 11 |
| 46 | Aboveground biomass density models for NASA's Global Ecosystem Dynamics Investigation (GEDI) lidar mission. <i>Remote Sensing of Environment</i> , <b>2022</b> , 270, 112845  | 13.2 | 11 |
| 45 | Soil nitrogen concentration mediates the relationship between leguminous trees and neighbor diversity in tropical forests. <i>Communications Biology</i> , <b>2020</b> , 3, 317   | 6.7  | 10 |
| 44 | A map of African humid tropical forest aboveground biomass derived from management inventories. <i>Scientific Data</i> , <b>2020</b> , 7, 221   | 8.2  | 10 |
| 43 | Afromontane Forest Diversity and the Role of Grassland-Forest Transition in Tree Species Distribution. <i>Diversity</i> , <b>2020</b> , 12, 30  | 2.5  | 10 |
| 42 | A simulation method to infer tree allometry and forest structure from airborne laser scanning and forest inventories. <i>Remote Sensing of Environment</i> , <b>2020</b> , 251, 112056  | 13.2 | 10 |
| 41 | High aboveground carbon stock of African tropical montane forests. <i>Nature</i> , <b>2021</b> , 596, 536-542   | 50.4 | 10 |

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|----|---|------|---|
| 40 | Determinants of spatial patterns of canopy tree species in a tropical evergreen forest in Gabon. <i>Journal of Vegetation Science</i> , <b>2019</b> , 30, 929-939   | 3.1  | 9 |
| 39 | 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> , <b>2021</b> , 264, 112533 | 13.2 | 9 |
| 38 | Phylogenetic turnover along local environmental gradients in tropical forest communities. <i>Oecologia</i> , <b>2016</b> , 182, 547-57  | 2.9  | 8 |
| 37 | Effect of local topographic heterogeneity on tree species assembly in an Acacia-dominated African savanna. <i>Journal of Tropical Ecology</i> , <b>2019</b> , 35, 46-56   | 1.3  | 7 |
| 36 | Polygyny does not explain the superior competitive ability of dominant ant associates in the African ant-plant, (). <i>Ecology and Evolution</i> , <b>2018</b> , 8, 1441-1450   | 2.8  | 7 |
| 35 | Tracing innovation pathways in the management of natural and social capital on Laikipia Maasai Group Ranches, Kenya. <i>Pastoralism</i> , <b>2016</b> , 6,  | 2.9  | 7 |
| 34 | Response to Comment on "Plant diversity increases with the strength of negative density dependence at the global scale". <i>Science</i> , <b>2018</b> , 360,  | 33.3 | 7 |
| 33 | Liana abundance and diversity in Cameroon's Korup National Park <b>2014</b> , 11-22   |      | 6 |
| 32 | Manilkara lososiana, a New Species of Sapotaceae from Cameroon. <i>Kew Bulletin</i> , <b>2004</b> , 59, 609   | 0.5  | 6 |
| 31 | Shift in functional traits along soil fertility gradient reflects non-random community assembly in a tropical African rainforest. <i>Plant Ecology and Evolution</i> , <b>2017</b> , 150, 265-278                         | 1.6  | 5 |
| 30 | A New Species of Cassipourea (Rhizophoraceae) from Western Cameroon. <i>Novon</i> , <b>2006</b> , 16, 61-64   | 0.7  | 5 |
| 29 | Two New Species of Carapa (Meliaceae) From Western Ecuador. <i>Systematic Botany</i> , <b>2011</b> , 36, 124-128  | 0.7  | 4 |
| 28 | Carapa vasquezii (Meliaceae), a new species from western Amazonia. <i>Brittonia</i> , <b>2011</b> , 63, 7-10  | 0.5  | 4 |
| 27 | A new species of Carapa (Meliaceae) from Central Guyana. <i>Brittonia</i> , <b>2009</b> , 61, 366-374   | 0.5  | 4 |
| 26 | Botanical Sampling Gaps Across the Cameroon Mountains. <i>Biodiversity Informatics</i> , 12,  | 2.9  | 4 |
| 25 | Vegetation, floristic composition and structure of a tropical montane forest in Cameroon. <i>Bothalia</i> , <b>2019</b> , 49,   | 1.2  | 4 |
| 24 | Response to Comment on "Plant diversity increases with the strength of negative density dependence at the global scale". <i>Science</i> , <b>2018</b> , 360,  | 33.3 | 4 |
| 23 | Five new species of Englerophytum K. Krause (Sapotaceae) from central Africa. <i>Candollea</i> , <b>2016</b> , 71, 287-305  | 3.95 | 3 |

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|----|---|------|---|
| 22 | Two new species of Afrothismia (Thismiaceae) from southern Cameroon. <i>Kew Bulletin</i> , <b>2013</b> , 68, 591-597  | 0.5  | 3 |
| 21 | Limited carbon and biodiversity co-benefits for tropical forest mammals and birds <b>2015</b> ,   |      | 3 |
| 20 | Field and Morphometric Studies of Phyllobotryon M&B. Arg. (Salicaceae) in the Korup Forest Area of Cameroon. <i>Adansonia</i> , <b>2014</b> , 36, 303-313   | 0.2  | 3 |
| 19 | An extraordinary new rheophyte in the genus Leptactina (Rubiaceae, Pavetteae) from Rio Muni (Equatorial Guinea). <i>Botanical Journal of the Linnean Society</i> , <b>2007</b> , 153, 109-113   | 2.2  | 3 |
| 18 | Temporal population variability in local forest communities has mixed effects on tree species richness across a latitudinal gradient. <i>Ecology Letters</i> , <b>2020</b> , 23, 160-171  | 10   | 3 |
| 17 | Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide. <i>Nature Communications</i> , <b>2021</b> , 12, 3137  | 17.4 | 3 |
| 16 | Fine-scale habitat heterogeneity influences browsing damage by elephant and giraffe. <i>Biotropica</i> , <b>2021</b> , 53, 86-96  | 2.3  | 3 |
| 15 | Distribution of biomass dynamics in relation to tree size in forests across the world.. <i>New Phytologist</i> , <b>2022</b> ,  | 9.8  | 2 |
| 14 | The Tropical African Genus Crotonogynopsis (Euphorbiaceae), with Two New Species. <i>Novon</i> , <b>2015</b> , 24, 246-255  | 0.7  | 1 |
| 13 | Extranuptial nectaries in Carapa Aubl. (Meliaceae-Cedreloideae). <i>Adansonia</i> , <b>2014</b> , 36, 335-349   | 0.2  | 1 |
| 12 | Isolation and characterization of 15 polymorphic microsatellite loci in Tetragastris panamensis (Burseraceae), a widespread Neotropical forest tree. <i>Conservation Genetics Resources</i> , <b>2009</b> , 1, 385-387  | 0.8  | 1 |
| 11 | 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> , <b>2021</b> , 17, e1008853 | 5    | 1 |
| 10 | Savanna woody plants responses to mammalian herbivory and implications for management of livestock and wildlife landscape. <i>Ecological Solutions and Evidence</i> , <b>2021</b> , 2, e12083   | 2.1  | 1 |
| 9  | Gambeya korupensis (Sapotaceae: Chrysophylloideae), a new rain forest tree species from the Southwest Region in Cameroon. <i>Kew Bulletin</i> , <b>2016</b> , 71, 1   | 0.5  | 1 |
| 8  | The genus Cola (Malvaceae) in Cameroon – Korup National Park, with two novelties. <i>Plant Ecology and Evolution</i> , <b>2018</b> , 151, 241-251   | 1.6  | 1 |
| 7  | Gradients in the Diversity of Plants and Large Herbivores Revealed with DNA Barcoding in a Semi-Arid African Savanna. <i>Diversity</i> , <b>2022</b> , 14, 219  | 2.5  | 1 |
| 6  | The Efficiency of DNA Barcoding in the Identification of Afrotropical Forest Tree Species. <i>Diversity</i> , <b>2022</b> , 14, 233   | 2.5  | 1 |
| 5  | Environment- and trait-mediated scaling of tree occupancy in forests worldwide. <i>Global Ecology and Biogeography</i> , <b>2019</b> , 28, 1155   | 6.1  |   |

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|---|---|-----|
| 4 | Kihansia jengiensis, a new species of Triuridaceae from southeastern Cameroon. <i>Kew Bulletin</i> , <b>2015</b> , 70, 1  | 0.5 |
| 3 | 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> , <b>2017</b> , 10, 1602 | 0.3 |
| 2 | Cassipourea atanganaesp. nov., a new species of Rhizophoraceae from Lower Guinea. <i>Adansonia</i> , <b>2011</b> , 33, 209-213  | 0.2 |
| 1 | Understanding the monodominance of <i>Acacia drepanolobium</i> in East African savannas: insights from demographic data. <i>Trees - Structure and Function</i> , <b>2021</b> , 35, 1439-1450  | 2.6 |